

State of California
The Resources Agency

Department of Water Resources

Urban Water Use in California



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California Department of Water Resources

URBAN WATER USE IN CALIFORNIA



Bulletin 166-4 August 1994





Foreword

Planning for future urban water supply needs in California entails a wide range of efforts by local, State, and federal water agencies and other interested parties. Analysis of past water use trends is important to the effectiveness of this effort and the reliability of forecasts of water needs. The Department of Water Resources has surveyed retail water agencies and analyzed their water production data for over 35 years and has made the results available since 1968 through the Bulletin 166 series.

Bulletin 166-4 is a compilation of monthly urban water production data from nearly 300 retail water purveyors for the decade ending 1990. The data come from service areas in all 10 hydrologic regions (major water planning subdivisions) of the State. Socioeconomic and natural phenomena, notably climate, population growth, and pricing, which have influenced water use trends in the 1980s are discussed. The text also provides an analysis of urban water use by hydrologic regions and the major sectors (residential, commercial, industrial, and governmental). The urban water demands cited in the recent *California Water Plan Update*, Bulletin 160-93, are largely based on Bulletin 166-4 data.

The intent of Bulletin 166-4 is to provide the water community with information on the urban water use data that can be employed in statewide and regional water planning decisions. Estimates of per capita water use can indicate changes in water use patterns for a community, a region, an industry, or the State.

Bulletin 166-4 introduces the Water Savings Simulation Program, a model for urban water use forecasting developed by the Department with the University of California, Los Angeles. The Department hopes that this model will be an effective tool for planning and calculating future urban water demands.

David N. Kennedy, Director Department of Water Resources

State of California



Contents

101011011011011011011011011011011011011	. 111
Organization	-
California Water Commission	xill
Mission Statement	
Chapter 1. Introduction	
Authorization	
DWR Water Use Reports	
Bulletin 160 Series	. 1
Bulletin 166 Series	. 1
Highlights of This Report	. 3
Chapter 2. Urban Water Use in California	. 5
Population Growth	
Urban Applied Water and Per Capita Water Use	
Water Use in the Major Urban Sectors	10
Residential Water Use	11
Commercial Water Use	12
Industrial Water Use	13
Governmental/Public Water Use	14
Unaccounted Water	14
Effects of Drought and Water Conservation on Urban Applied Water	15
Water Recycling and Gray Water	16
Chapter 3. Factors Influencing Urban Water Use	19
Climatic Factors	19
Evaporative Demand	19
Evapotranspiration	-
Seasonal Water Use	23
Seasonal Versus Outdoor Use	24
Socioeconomic Factors	26
Income	26
Water Price	26
Water Meters	26
Water-Using Appliances and Other Household Uses	27
Community Make-up	27

Residential Density	27
Persons per Household	
Water Conservation	29
Urban Best Management Practices	29
Urban Water Management Planning Act	30
Landscape Water Use and Conservation	30
Chapter 4. Water Pricing	
Factors Affecting Water Prices	
Source	33
Transportation	33
Costs	33
Weather	33
Water Pricing Policies	33
Urban Retail Water Prices	34
Rate Structure	34
Urban Wholesale Water Prices	35
U.S. Bureau of Reclamation	36
California Department of Water Resources	36
The Metropolitan Water District of Southern California	36
San Francisco Water Department	36
Property Taxes and Other Assessments	36
Urban Ground Water Costs	37
Chapter 5. Forecasting Water Demand in California	39
Methods of Forecasting Water Demand	39
Time Series Analysis	39
Water Use Coefficient Methods	39
The Water Savings Simulation Program	41
Chapter 6. Data Collection and Analysis	43
Sources of Data	43
Data Collection and Geographic Uniformity of Data Coverage	43
Population Served	46
Verifying Data	46
Uses of the Data	47
Appendix A. Ten-Year Urban Water Use Data	
Appendix B. Glossary	
Appendix C. Bibliography	
Appendix D. Water Use and Depletions	
Appendix E. Precipitation and Urban Landscaping	
Appendix F. Urban Retail Water Costs	F-1

Appendix G. Water Savings Simulation Program G-1
Pilot Forecasting Project G-4
Application of WSSP
Tables
Table 1-1. California Water Demand
Table 2-1. Urban Population by Hydrologic Regions 5
Table 2-3. 1990 Per Capita Water Use in California
Table 2-4. Normalized 1990 Urban Applied Water Demand by Hydrologic Region
Table 2-5. Per Capita Water Use of Pairs of Communities in the Same Climatic Zone
Table 2-6. 1990 Percentage of Urban Water Use by Sector
Table 2-7. Residential Water Use in California
Table 2-8. Indoor Residential Water Use in California, 1972
Table 2-9. Indoor Residential Water Use in California, 1990
Table 2-10. Commercial Applied Water Use in California, by Hydrologic Region
Table 2-11. Industrial Applied Water Use in California
Table 2-12. Governmental Applied Water Use in California
Table 2-13. Unaccounted Water in California
Table 2-14. Projected 2020 Applied Urban Water Reductions and Reductions in Depletions by Hydrologic Region
Table 2-15. 1990 Water Recycling by Hydrologic Region
Table 3-1. Percentages of Seasonal and Baseline Use in Southern California
Table 3-2. Percentage of Seasonal Urban Water Use in Various Regions of California
Table 3-3. Comparison of Seasonal Water Use and Annual Per Capita Water Use in Los Angeles and Fresno During 1980-87
Table 3-4. Percentage of Single and Multi-Family Households in California
Table 3-5. Persons Per Household by Housing Type
Table 3-6. Statistics for Irrigation Efficiency for Landscapes Evaluated by the Mobile Irrigation Laboratory 30
Table 4-1. 1992 Urban Ground Water Costs by Hydrologic Region
Table 5-1. Urban Water Use Forecasting Methods
Table 5-2. Water Service Areas of WSSP Pilot Study by Hydrologic Region
Table 6-1. Population Distribution and Percentage of Population of Reported Data, by Hydrologic Region 1980 and 1990
Table A-1. Population Growth by County, 1980 and 1990
Table A-2. Master Alphabetical Listing of Reporting Agencies, Indicating Hydrologic Region
Table A-3. North Coast Region Water Production and Per Capita Water Use
Table A-4. San Francisco Water Production and Per Capita Water Use
Table A-5. Central Coast Region Water Production and Per Capita Water Use
Table A-6. South Coast Region Water Production and Per Capita Water Use
Table A-7. Sacramento River Region Water Production and Per Capita Water Use A-204
Table A-8. San Joaquin River Region Water Production and Per Capita Water Use A-255
Table A-9. Tulare Lake Region Water Production and Per Capita Water Use

Table A-10. North Lahontan Region Water Production and Per Capita Water Use	1-296
Table A-11. South Lahontan Region Water Production and Per Capita Water Use	\- 299
Table A-12. Colorado River Region Water Production and Per Capita Water Use	\-306
Table D-1. Comparison of Population Densities of California Counties, 1980 to 1990	D-2
Table E-1. Distribution Uniformity Statistics for Landscapes Evaluated by the Mobile Irrigation Laboratory	. E-5
Table E-2. Estimated Values for Species, Density, and Microclimate Factors Used to Determine the Landscape Coefficient (KL) for Selected Vegetation Types	. E-5
Table F-1. Single Family Residential Summer and Winter Water Use and Retail Costs (1991)	. F-2
Table F-2. Single Family Residential Average Monthly Water Use and Retail Costs (1991)	. F-4
Table F-3. Commercial Average Monthly Water Use and Retail Costs (1991)	. F-5
Table F-4. Industrial Average Monthly Water Use and Retail Costs (1991)	. F-7
Table G-2. Sources of Input Data	G-4
Table G-3. Water Service Areas of WSSP Pilot Study by Hydrologic Region	G-4
Figures	
Figure 2-1. Hydrologic Regions of California	7
Figure 2-2. Urban Agency Supplied Per Capita Water Use in Selected Hydrologic Regions	9
Figure 2-3. 1990 Urban Applied Water Use By Sector	
Figure 2-4. Estimated 1990 Water Recycling by Category	. 17
Figure 3-1. Variations in GPCD and ETo	
Figure 3-2. Zones of Similar Evaporative Demand in California	. 22
Figure 3-3. Average Monthly Urban Per Capita Water Use Statewide	
Figure 3-4. Allocation of Seasonal and Base (nonseasonal) Water Use Using Minimum Month Method Los Angeles and Fresno	. 25
Figure 3-5. Relationship Between GPCD and Per Capita Income for Eight California Cities in 1989	
Figure 4-1. Common Urban Retail Water Rate Structures	
Figure 4-2. Single Family Retail Water Costs from Selected California Cities (1990-91)	. 35
Figure 5-1. Water Savings Simulation Program forecast results in the form of the 5th, 25th, 50th, 75th, and 95th percentiles of the distribution of simulation estimates. The 50th percentile plot represents the most likely value for each year of the forecast period under the given assumptions	
Figure 6-1. Urban Water Utility Statistics (DWR reporting form)	. 44
Figure 6-2. DWR District Boundaries	
Figure A-1. Hydrologic Regions of California	. A-2
Figure A-2. Planning Subareas Within Hydrologic Regions	
Figure A-3. North Coast Region	A-12
Figure A-4. San Francisco Bay Region	A-35
Figure A-5. Central Coast Region	A-77
Figure A-6. South Coast Region	A-96
Figure A-7. Sacramento River Region	
Figure A-8. San Joaquin River Region A	
Figure A-9. Tulare Lake Region A	-276
Figure A-10 North Laborate Region	-295

Figure A-11. South Lahontan Region	A-298
Figure A-12. Colorado River Region	A-305
Figure D-1. Urban Water Net Use and Depletion	D-4
Figure E-1. Annual Precipitation and Per Capita Water Use	E-2
Figure E-2. Average Maximum July Temperatures and Per Capita Water Use	E-3
Figure E-3. Normal Monthly Evaporation and Rainfall for Two Precipitation Zones in the Central Valley .	E-4
Figure F-1. Water Use Charge for Selected Agencies	F-8
Figure F-2. Commercial/Industrial Monthly Retail Water Costs	F-9
Figure G-1. Presentation of WSSP Forecast Results	G-2
Figure G-2. Forecast of Urban Applied Water Demand	G-5
Figure G-3. Forecast of Urban Water Consumption by End-User Category	G-5
Figure G-4. Forecast of Per Capita Water Use	G-6
Figure G-5. Forecast of Water Savings Due to BMPs	G-7
Figure G-6. Forecast of Water Savings Due to BMPs by User Sector	G-7

State of California The Resources Agency Department of Water Resources

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The California Water Commission serves as a policy advisory body to the Director of Water Resources on all California water resources matters. The nine-member citizen commission provides a water resources forum for the people of the State, acts as a liaison between the legislative and executive branches of State Government, and coordinates federal, state, and local water resources efforts.

Department of Water Resources

Mission

To manage the water resources of California, in cooperation with other agencies, to benefit the State's people and protect, restore, and enhance the natural and human environments.

Major responsibilities of the Department are to:

- Prepare and update the California Water Plan to guide development and management of the State's water resources.
- Plan, design, construct, operate, and maintain the State Water Resources Development System to supply good water quality for municipal, industrial, agricultural, and recreational uses for fish and wildlife protection and enhancement.
- Protect and restore the Sacramento-San Joaquin Delta by controlling salinity and providing water supplies for Delta water users; planning long-term solutions for environmental and water use problems facing the Delta; and administering levee maintenance reimbursements and special flood control projects.
- Regulate dams, provide flood protection, and assist in emergency management to safe-guard life and property by supervising design, construction, operation, and maintenance of more than 1,200 jurisdictional dams; encouraging preventive floodplain management practices; maintaining and operating Sacramento Valley flood control facilities; cooperating in flood control planning and facility development; and providing flood advisory information.
- Educate the public about the importance of water and its proper use and collect, analyze, and distribute water-related information to the general public and to the scientific, technical, educational, and water management communities.
- Serve local water needs by providing technical assistance, cooperating with local agencies on water resources investigations, supporting watershed and river restoration programs, encouraging water conservation, exploring conjunctive use of ground and surface water, facilitating voluntary water transfers, and, when needed, operating a State drought water bank.



Authorization

The California Water Code and Constitution require that the water resources of the State be put to beneficial uses to the fullest extent possible, and that waste, unreasonable use, or unreasonable methods of water use be prevented. The law charges the Department of Water Resources and other State agencies with the responsibility to ensure protection of the State's water resources for the benefit of present and future generations. The Department operates under a mission statement that dedicates its efforts toward fulfillment of this obligation. This report helps the Department meet the first, fifth, and sixth goals of its mission. Collecting and reporting statewide water information is necessary to forecast future water demands and plan to meet future local and statewide needs.

In the 1940s, the Division of Water Resources under the Department of Public Works (predecessor to the Department of Water Resources) began compiling water use data. In 1959, Section 226 was added to the Water Code, enabling the Department to collect records on diversion and use of water, and conduct investigations on actual water use for various purposes. Further, Section 232 directed the Department to conduct investigations and prepare findings on current uses of water within each watershed. Water data collection is a cooperative effort among federal and State agencies and water purveyors and users throughout the State. Data and analyses are made available to those with an interest or a need for the information. The Department publishes its findings in the reports discussed below.

DWR Water Use Reports

Bulletin 160 Series

In 1957, the Department published the California Water Plan (Bulletin 3), a report detailing current water use and supply along with major aspects of water planning and de-

velopment. Since 1966, the Plan has been updated six times under the Bulletin 160 series most recently as Bulletin 160-93, *California Water Plan Update*. Each update summarized the Department's findings on statewide developed water supply and uses including projections for up to 30 years into the future.

For the first time, Bulletin 160-93 presented average water year and drought year water demand and supply scenarios through the year 2020. Also, Bulletin 160-93 gave full standing to environmental water use as a major category along with urban and agricultural water use. Table 1-1, taken from Bulletin 160-93, shows a summary of current and projected water uses under average water year and drought scenarios. Definitions of water terms used in Table 1-1 are found on page 3.

Bulletin 166 Series

In 1968, the Department began the Bulletin 166 series focusing on urban water use in California. This bulletin periodically updates historical urban water use data.

Some objectives of the Bulletin 166 series are to:

- Prepare data and analysis for updating the California Water Plan, for use in other planning studies, and for general public information;
- Provide basic water use information including summaries of urban water production, delivery, and related data from local water agencies;
- Summarize historical water data and analyze trends in water use by hydrologic regions and major categories of use;
- · Quantify self-supplied water use;
- Describe methods for forecasting future water requirements; and
- Assess the effects of water conservation practices.

		California Wa nillions acre-f			1.30	f
C	19	1990			1990-2020 Change	
Category of Use	average	drought	average	drought	average	drought
Urban						
Applied water	7.8	8.1	12.7	13.2	4.9	5.1
Net water	6.8	7.1	10.5	11.0	3.7	3.9
Depletion	5.7	6.0	8.4	8.8	2.7	2.8
Agricultural				1		
Applied water	31.1	32.8	28.8	30.4	-2.3	-2.4
Net water	26.8	28.2	24.9	26.1	-1.9	-2.1
Depletion	24.2	25.6	22.8	24.1	-1.4	-1.5
Environmental 1				p	0,	
Applied water	28.8	16.8	29.3	17.3	0.5	0.5
Net water	28.4	16.4	28.8	16.8	0.4	0.4
Depletion	24.4	12.9	24.7	13.3	0.3	0.4
Other ²						
Applied water	0.3	0.3	0.3	0.3	0.0	0.0 ,
Net water	1.5	1.5	1.5	1.4	0.0	-0.1
Depletion	1.0	1.0	1.0	1.0	0.0	0.0
Total						
Applied water	68.0	58.0	71.1	61.2	3.1	3.2
Net water	63.5	53.2	65.7	55.3	2.2	2.5
Depletion	55.3	45.5	56.9	47.2	1.6	1.4

¹ Includes water dedicated to wetlands, instream flows, wild and scenic river flows, and salinity repulsion. There may also be 1 to 3 MAF in additional environmental demand.

² Other includes conveyance losses, recreation uses, and energy production.

Bulletin 166-1 (Municipal and Industrial Water Use, August 1968) compiled water use data from 1961 through 1965 on 85 water suppliers and major manufacturing facilities, presented as per capita water use on a daily, monthly, and annual basis. This was the Department's first report to present detailed urban water use data, including per capita water use data and projections for cities in the various hydrologic regions of the State.

Bulletin 166-2, *Urban Water Use in California* (October 1975) summarized monthly per capita water use data from 1961 through 1970 for 147 water service agencies throughout the State. This report noted, "Historic trends in per capita water use are generally continuing upward, although rates of use have leveled off or remained the same within a number of communities"

Bulletin 166-3, *Urban Water Use in California*, (October 1983) reported water use rates for 178 water service agencies (including those reported in Bulletin 166-2) from 1970-71, through 1980. This report noted, "After years of a generally upward trend, overall per-capita water use appears to have tended to level off during the past decade." This report recognized a marked drop in water use during the dry years of 1976 and 1977, followed by a return to previous levels of usage, but also conjectured, "Most major water suppliers in California have active water conservation programs, which should further tend to reduce future per-capita water use rates."

Bulletins 166-4 and 160-93 were developed concurrently and are based on the same urban water use data through 1990.

Other Department reports focus specifically on water use by manufacturing industries (Bulletin 124 series, last updated in 1982), and by agriculture (Bulletin 113 series, last updated in 1986).

Highlights of This Report

Bulletin 166-4 summarizes historical urban water use trends, per capita urban water use, applied and net water use and depletions, and type of use (residential, commercial, industrial, and governmental) during the period 1980 through 1990.

Applied Water Use, Net Water Use, and Depletions

Urban applied water means the water produced and supplied to the system of an urban water purveyor. Three other terms, also found in Appendix B, are important enough to be explained here:

ETAW (Evapotranspiration of Applied Water): The portion of the total evapotranspiration provided by irrigation.

Net Water Demand: The amount of water needed in a service area to meet all requirements. It is the sum of ETAW, irrecoverable losses from the distribution system and the outflow leaving the service area.

Depletion: The water consumed within a service area that is no longer available as a source of supply. For urban use it is ETAW from landscapes and gardens, sewage effluent that flows to a salt sink, and incidental evapotranspiration losses.

As in previous issues of this report, a major portion consists of 10-year summaries (Appendix A) of actual

monthly water use data as reported to the Department by nearly 300 retail urban water purveyors representing all 10 major hydrologic regions in California. These suppliers report populations in their service areas that range from a few hundred to over 3 million, totaling about 74 percent of the State's population. They deliver from less than 100 to over 650,000 acre-feet annually, and constitute about 90 percent of total urban water deliveries statewide. Appendix A includes regional maps and a listing of water suppliers reporting in this bulletin. The per capita values calculated for the water agencies in Appendix A are weighted by population for regional and statewide urban water use estimates.

Since the primary focus of this bulletin is on actual wateruse history from 1980 to 1990, the effects of the 1987-1992 drought and conservation programs adopted by State and local agencies are evident in the data in Appendix A. In contrast, some of the analyses in this report and in Bulletin 160-93 use estimates for 1990 that are normalized by averaging 1980-87 data to eliminate the skewing effects of the drought.

Chapter 2 of this Bulletin describes and analyzes the four major sectors of urban water use and introduces terminology. Chapter 3 discusses climatic, socioeconomic, and demand management factors that influence water usage rates. Chapter 4 is a discussion of water pricing methods and policies. Chapter 5 discusses future water demands and illustrates an urban water-use forecasting model to evaluate the effects of water conservation management practices. Finally, Chapter 6 describes the data gathering processes used in acquiring the 1980-1990 water use data in Appendix A.



Even with aggressive conservation programs, urban water use will continue to increase as population grows.

Chapter 2.

Urban Water Use in California

Population Growth

Population estimates for 1990 and 2020 are based on census data and projections provided by the Department of Finance. State law mandates that these estimates are used in the Department's planning studies. Regional planning agencies, such as the Southern California Association of Governments, Association of Bay Area Governments, and others also prepare population projections.

The Department of Water Resources divides California into 10 major hydrologic regions (see Figure 2-1) for water planning. Each region is divided into planning subareas (PSA), which are further divided into detailed analysis units (DAU) (see also Appendix A). The Department's major water use bulletins incorporate data gathered and analyzed by DAU and aggregated to PSAs and hydrologic regions. Table 2-1 compares 1990 and 2020 urban population by hydrologic region.

Table 2-1. Urban Population by Hydrologic Regions (millions)				
Region	1980	1990	2020	
North Coast	0.5	0.6	0.9	
San Francisco	4.8	5.5	6.9	
Central Coast	1.0	1.3	2.0	
South Coast	12.9	16.3	25.3	
Sacramento River	1.7	2.2	4.1	
San Joaquin River	1.0	1.4	3.2	
Tulare Lake	1.2	1.5	3.5	
North Lahontan	0.1	0.1	0.1	
South Lahontan	0.3	0.6	1.9	
Colorado River	0.3	0.5	1.0	
Total	23.8	30.0	48.9	

Population growth varies throughout the State. Growth rates are increasing in the hotter interior of California where residential per capita water use is greatest. Table 2-2 shows county population growth between 1980 and 1990.

Urban Applied Water and Per Capita Water Use

Urban applied water is the measured quantity introduced into a water supplier's system (water production) and is equivalent to water delivered to customers plus unaccounted losses. Urban applied water includes the water produced for all urban needs—residential, commercial, industrial, and governmental. Although, most urban water use occurs in urban areas, it also occurs in outlying rural-area residences, commercial facilities, manufacturing plants, and governmental facilities. See Appendix B for a glossary of terms.

Per capita water use is all applied water divided by the total permanent resident population of the water service area. The most difficult aspect of quantifying the per capita use is accurately determining population of the service area.

Table 2-3 presents normalized 1990 per capita water use by hydrologic region used in Bulletin 160-93. The normalized 1990 levels were calculated based on the average per capita use in more than 170 California communities during 1980 to 1987, a period unaffected by the 1987-92 drought. The averages also include estimates of self-supplied (not delivered by water purveyors) ground and surface water, estimated by the U.S. Geological Survey (1993) at over 550,000 acre-feet per year statewide.

The values in Table 2-3 represent gross per capita water use (see Glossary, Appendix B) including the residential, commercial, industrial, and governmental water use sectors. The residential per capita water use was based on the percentage of the total water delivered to residences in each region. The statewide average was calculated by weighting the per capita water use of each region by population. The heavily populated South Coast most strongly influenced the statewide average. These values reflect reductions in per capita use caused by conservation that have accumulated since 1980. It is estimated that urban applied water in the normalized 1990 year compared to 1980 was being reduced by about 435,000 acre-feet statewide due to ongoing conservation programs (Bulletin 160-93).

	Total Pop	ulation	% Growth		Total Pop	ulation	% Growth
County	1980	1990	1980-1990	County	1980	1990	1980-1990
Alameda	1,109,500	1,282,400	16	Placer	118,400	175,600	48
Alpine	1,100	1,100	0	Plumas	17,400	19,900	14
Amador	19,500	30,600	57	Riverside	669,800	1,195,400	78
Butte	144,900	183,900	27	Sacramento	787,900	1,051,400	33
Calaveras	20,900	32,500	56	San Benito	25,200	37,000	47
Colusa	12,900	16,400	27	San Bernardino	902,200	1,440,700	60
Contra Costa	658,500	810,300	23	San Diego	1,873,300	2,520,500	35
Del Norte	18,300	24,500	34	San Francisco	680,500	723,900	6
El Dorado	86,500	128,200	48	San Joaquin	350,200	483,800	38
Fresno	517,400	673,900	30	San Luis Obispo	156,600	219,500	40
Glenn	21,500	25,000	16	San Mateo	588,100	652,100	11
Humboldt	108,900	119,800	10	Santa Barbara	300,000	371,400	24
Imperial	92,500	110,400	19	Santa Clara	1,300,200	1,502,200	16
Inyo	17,900	18,400	3	Santa Cruz	189,100	230,800	22
Kern	406,100	549,800	35	Shasta	116,600	148,800	28
Kings	74,200	102,500	38	Sierra	3,100	3,400	10
Lake	36,800	51,100	39	Siskiyou	40,000	43,800	10
Lassen	21,800	27,800	28	Solano	237,200	345,700	46
Los Angeles	7,500,300	8,897,500	19	Sonoma	301,400	392,000	30
Madera	63,900	89,800	41	Stanislaus	267,700	376,100	40
Marin	222,700	231,200	4	Sutter	52,600	65,100	24
Mariposa	11,200	14,500	29	Tehama	39,100	50,100	28
Mendocino	67,000	81,000	21	Trinity	12,000	13,100	9
Merced	135,200	180,600	34	Tulare	247,400	314,600	27
Modoc	8,700	9,700	11	Tuolumne	34,200	49,000	43
Mono	8,700	10,200	17	Ventura	532,200	671,600	26
Monterey	292,100	358,800	23	Yolo	113,900	142,500	25
Napa	99,300	111,700	12	Yuba	49,800	58,700	18
Nevada	52,500	79,600	52	g	40 FO4 FC5	22.08.08.	26
Orange	1,944,800	2,424,100	25	Statewide Total	23,781,700	29,976,000	26

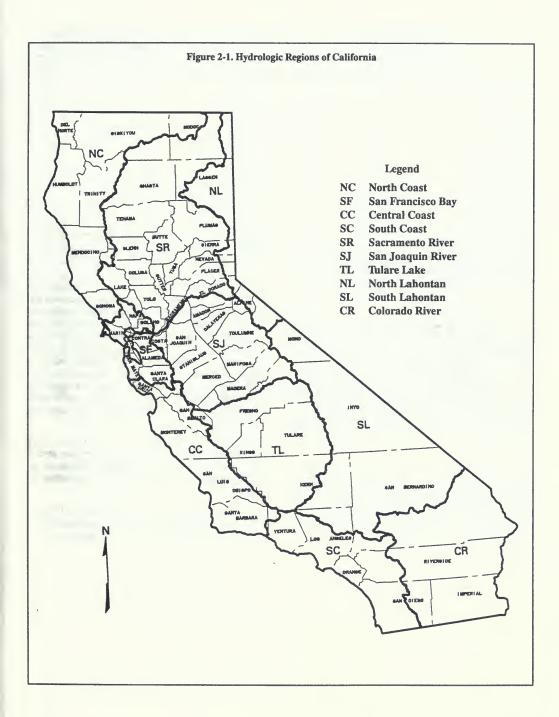


Table 2-3, 1990 Per Capita Water Use in California (gallons per capita daily)

(ganons per capita daily)			
Region	All Uses	Residential	
North Coast	263	84	
San Francisco	193	106	
Central Coast	189	113	
South Coast	211	124	
Sacramento River	301	166	
San Joaquin River	309	170	
Tulare Lake	301	202	
North Lahontan	421	194	
South Lahontan	278	175	
Colorado River	579	342	
Statewide Weighted Average*	232	134	

^{*}Average of 1980-87 data used as the 1990 normalized base for Bulletin 160-93, weighted by population.

Figure 2-2 plots statewide annual changes in per capita water use between 1940 and 1990 in six major regions of the State. The two drought periods of 1976-77 and 1987-92 clearly affect the annual values. Department data from 1920 through 1970 indicates that daily per capita use increased by 1.7 gallons per year. However, per capita water use has remained relatively constant since 1970, except for the variations due to weather. During drought years trends were modified downward by imposed water use restrictions and voluntary efforts by users to reduce use.

The hydrologic regions with the highest total urban applied water use are the densely populated San Francisco Bay and South Coast. The relationship between population density and per capita use is discussed in Chapter 3 and Appendix D. Table 2-4 shows normalized demand by hydrologic region.

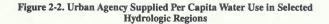
Table 2-4. Normalized 1990 Urban Applied Water Demand by Hydrologic Region (millions acre-feet)

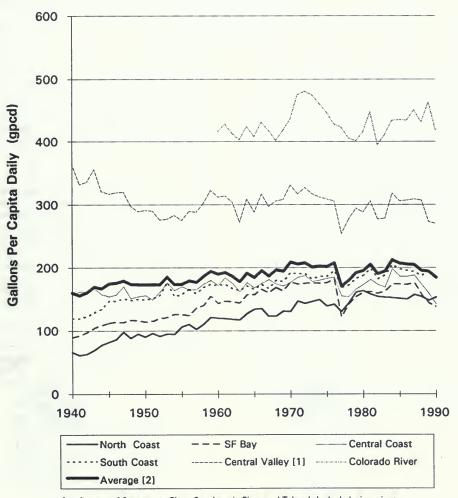
Hydrologic Region	Applied Water	Net Water	Depletion
North Coast	0.17	0.17	0.11
San Francisco	1.19	0.19	1.09
Central Coast	0.27	0.23	0.20
South Coast	3.80	3.51	3.34
Sacramento River	0.74	0.75	0.24
San Joaquin River	0.49	0.35	0.19
Tulare Lake	0.52	0.19	0.21
North Lahontan	0.04	0.04	0.02
South Lahontan	0.19	0.12	0.12
Colorado River	0.30	0.20	0.20
Total	7.76	6.77	5.72
Source: Adapted from Bulletin 160-93			

Per capita use is considerably higher in the Central Valley and Colorado River regions where it may reach over 600 gallons in July, compared to less than 100 gallons in some North Coast Region communities during the same period. Maximum values occur in the Palm Springs area, due to tourism and intense summer heat, which raises evapotranspiration to high levels on golf courses and landscaped residential areas. Coastal populations are expanding eastward into these warmer climates, tending to increase the statewide per capita water use and partially offset the demand reductions gained through conservation efforts.

The gross per capita use method is useful for estimating statewide urban water demands. It is sometimes used to compare the water use of communities, which is not appropriate without evaluating all the factors affecting demand.

To illustrate how difficult it is to generalize about the factors affecting urban water use, data from pairs of communities having the same climate is shown in Table 2-5.





- 1. Average of Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.
- 2. Weighted by hydrologic region populations.

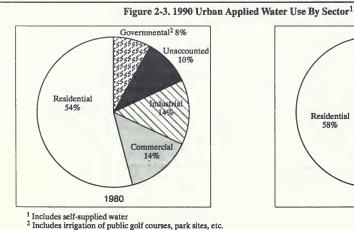
Table 2-5. Per Capita Water Use of Pairs of Communities in the Same Climatic Zone						
Community	Location	GPCD	Comments			
A	Western SF Bay 102	102	Both communities were metered but Community B had much larger homes, lot			
В	Region	277	sizes, and higher incomes.			
С	Northern Tulare	170	Community C was primarily lower income residential, while Community D had a			
D	Lake Basin	329	balance of commercial, industrial, and moderate-income residential. Both communities were not metered.			
E	South Coast			Both communities were metered but Community E was less affluent and had more		
F	Inland Valley	367	multi-family housing than Community F.			

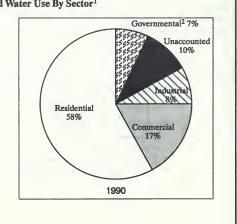
Water Use in the Major Urban Sectors

The urban applied water and per capita values discussed previously include all categories of urban water use. The Department's urban water use analysis recognizes four classes of use: residential, commercial, industrial, and governmental. However, there is no statewide standard as to what constitutes each category. Some water agencies classify institutional with commercial and consider governmental as public use. In other agencies, multi-family residential may be included with commercial or combined commercial/ residential. Commercial water use reflects the impact of tourist and recreational visitors on per capita values of the permanent local population. In Department analysis, residential uses include single-family dwellings, apartment units, and mobile (or manufactured) home parks. The other three classes have been defined from the groupings established in the Standard Industrial Classification Manual published by the U.S. Office of Management and Budget. As described in the Manual: "The Standard Industrial Classification (SIC) is the statistical classification standard underlying all establishment-based Federal economic statistics classified by industry. The SIC is used to promote the comparability of data describing various facets of the U.S. economy. The classification covers the entire field of economic activities and defines industries in accordance with the composition and structure of the economy. . . . "The major SIC groups that the Department uses for the industrial, commercial, and governmental categories are identified in this chapter.

Some of the water produced by urban water agencies is unaccounted for in customer deliveries. In California, regional unaccounted water, whether authorized use, unauthorized use, or distribution system losses, commonly ranges between 6 and 15 percent. Agencies that received leak detection grants from the State in 1984—serving 13 percent of the State's population—showed an average 10-percent loss.

Figure 2-3 and Table 2-6 illustrate the percentages of water use in all water use sectors statewide and by hydrologic region.





Region	Residential	Commercial	Industrial	Governmental	Unaccounted
North Coast	52	15	14	5	14
San Francisco	54	22 ~	9	7	8
Central Coast	60	16	8	6	10
South Coast	59	18	8	6	9
Sacramento River	56	17	6	12	9
San Joaquin River	70	8	10	6	6
Tulare Lake	67	10	10	4	9
North Lahontan	38	19 / (16)10	26 (23) 1 T2	10	7 (15)
South Lahontan	63	13 12.10	1 12	13 (14) in 3 T2-12	10
Colorado River	59	22 √	2	3 12-12	14
Statewide	58	17	8	7	10

Residential Water Use

The largest single urban water-using group is residential water users, which comprised about 58 percent of the statewide total of urban water use in 1990. The largest users are single-family dwellings that customarily have individual front and rear landscaped areas requiring irrigation during the growing season. Apartments share the water used for common gardens and turf and as a result, per capita water use is smaller. Other multi-family group dwellings such as condominiums, duplexes, halfplexes, and mobile homes in parks have a wide range in water use depending on climate, lot size, and the extent of landscaping. Table 2-7 shows the percentage of residential use and total applied water for residential use in California's hydrologic regions. Since 1980, the percentage of residential use, in relation to total urban use, has increased 4 percent.

The categories of interior residential water use were shown as percentages, not as volumes of water in the California Water Plan Update (DWR Bulletin 160-93). However, Water Conservation in California (DWR Bulletin 198, May 1976) separated volumes of urban water use into the categories displayed in Table 2-8. For this report, the percentages found in Bulletin 160-93 have been used to calculate the volumes shown in Table 2-9.

Table 2-7. Residential Water Use in California*				
Region	Percentage of Total Urban Use	Applied Water Use (1,000 AF)		
North Coast	52	88		
San Francisco	54	643		
Central Coast	60	162		
South Coast	59	2,240		
Sacramento River	56	414		
San Joaquin River	70	343		
Tulare Lake	67	348		
North Lahontan	35	14		
South Lahontan	63	120		
Colorado River	59	177		
	Statewide 58	Total 4,549		

^{*} Average of 1980-87 data used as the normalized 1990 base value for Bulletin 160-93

Table 2-8, Indoor Residential Water Use in California, 1972 Percentage of Total Total Applied Use Interior Use Interior Use (1,000 AF) Toilet 800 Bath 32 600 Kitchen 8 150 Laundry 14 270 Cooking 80 Total 100 1,900

Source: Bulletin 198, Figure 7 (May 1976) 1972 data Note: Assumes statewide total interior use as 56% of residential use.

in California, 1990					
Interior Use	Percentage of Total Interior Use	Total Applied Use (1,000 AF)			
Toilet	36	840			
Bath/Shower	28	650			
Dishwashing	3	70			
Laundry	20	460			
Faucets	13	300			
Total	100	2,320			

Because of low-flow fixture laws and conservation efforts during the 1980s, the percentage of total urban use in toilets and baths has declined from 56 percent of gross urban water use in 1972 to 51 percent in 1990. All faucets and showerheads manufactured after January 1, 1994, were restricted to a flow of 2.5 gallons per minute as established in the Federal Energy Policy Act of 1992. Further, all water closets sold or installed in California must use no more than 1.6 gallons per flush under State and federal laws. These and other factors should cause interior water use to decline per person but the increase in population will cause the total water used in residences to increase.

While gross indoor residential applied water use has increased, it has not increased as rapidly as population

growth. Comparison of the 1972 and 1990 data in Table 2-8 and Table 2-9 shows an increase of 24 percent in interior use while population increased 43 percent. In contrast, applying the same analysis to exterior water use, predominantly landscaping (discussed in Chapter 3), shows an increase of 44 percent over the same period while population increased 43 per cent.

Commercial Water Use

The percentage of commercial water use rose during the 1980s from 14 percent to 17 percent of total urban use. In Bulletin 166-3, the commercial sector included office buildings, restaurants, and other business establishments, but excluded governmental uses. The commercial categories based on SIC codes included:

Division	Description	Codes
С	Construction	15-17
E	Transportation, Communication, etc.	40-49
F	Wholesale Trade	50-51
G	Retail Trade	52-59
H	Finance, Insurance and Real Estate	60-67
I	Services	70-89
K	Non-classifiable Establishment	99

This bulletin uses the same categories to describe commercial use. However, commercial water use data are not gathered by category. In addition, there are methods of classifying urban water use that combine commercial and some governmental categories. There is little reason to assume that water use in a privately-owned hospital differs significantly from a University of California Medical Center in the same geographic location. A standardized grouping of SIC codes to describe commercial water use would be useful.

The regional commercial water use is illustrated in Table 2-10. Two other factors making the data on commercial use relatively *soft* are that multi-family housing units are often classified as commercial by local water agencies and that there is little data on the amount of commercial water use that is self-supplied. The U.S. Geological Survey (1993) estimated that 26 percent of all commercial use is self-supplied.

Table 2-10.	Commercial	Applied V	Vater Use in
Calif	ornia, by Hy	drologic Re	egion*

Region	Percenta Total Urbs		Applied Water Use (1,000 AF)
North Coast		15	26
San Francisco		22 ·	262
Central Coast		16	43
South Coast		18	684
Sacramento River		17	126
San Joaquin River		8	39
Tulare Lake		10	52
North Lahontan		16)-1	1 1 6
South Lahontan		13 < 2	- 5
Colorado River		22	66
	Average	17	Total 1,329

* Average of 1980-87 data used as the 1990 normalized base for Bulletin 160-93

Generally, broad commercial services develop in proportion to industrial, military, or governmental development. With its overall mild climate, the most populous state also abounds with tourist and recreational services year round and in most regions. The San Francisco Bay Region, North Lahontan (Lake Tahoe is in this region), and the Colorado River Region (Palm Springs) have the highest percentages of commercial use. The highly urbanized South Coast Region, which dedicates 80 percent of its total water demand to urban uses, has growing commercial water use (700,000 acre-feet) due to the growth in services and tourism.

In previous bulletins, the Department did not estimate volumes of water used in this category by hydrologic region. This is a growing category of urban water use that needs to be analyzed more completely in the 1990s.

The East Bay Municipal Utility District (1992) estimated that the 1986 actual demand of commercial enterprises was 15 percent of its applied water demand. Similarly, the base year (1990) projection of water use in The Metropolitan Water District of Southern California (Planning and Management Consultants, 1990) indicated that 17 percent of the use was commercial.

Industrial Water Use

The Department's Bulletin 124-3, Water Use by Manufacturing Industries in California (May 1982), identified a number of water intensive manufacturing industries including SIC Major Groups:

- 20: Food and Kindred Products
- 24: Lumber and Wood Products, Except Furniture
- 26: Paper and Allied Products
- 28: Chemical and Allied Products
- 29: Petroleum Refining and Related Industries
- 32: Stone, Clay, Glass, and Concrete Products
- 36: Electronic and other electrical equipment.

As of 1990, 8 percent of urban water deliveries are received by manufacturers, representing a decrease of 6 percent since 1980. Industrial water use in the hydrologic regions of California is shown in Table 2-11.

In areas where these water-intensive industries are sited, overall per capita water use may be higher than in areas without these industries. Where water-intensive industries exist, much of the industrial supply may be self-produced rather than utility supplied. Where this occurs, this additional amount of water must be identified and added to the amount distributed by water agencies before per capita rates can be calculated. Bulletin 124-3 estimated that 58 percent of the fresh water supplied to manufacturing plants in 1979 was agency-supplied, while 42 percent was self-supplied through wells, diversion, or springs. The U.S. Geological Survey (1993) indicated that approximately 25 percent of fresh industrial water was self-supplied in 1990. A survey of industrial use in 12 San Francisco Bay Area and Southern California counties indicated that 18 percent of their water was self-supplied (California Urban Water Agencies, 1990). However, the data are limited for the Central Valley, where it is assumed much of the industrial water is self-supplied because of accessible ground water. Twenty-five percent of industrial water was assumed to be self produced in 1990 for this Bulletin.

The total industrial water use of 620,000 acre-feet shown in Table 2-11 is almost a 300,000 acre-feet reduction from the 918,000 acre-feet reported in Bulletin 124-3 for 1979. While this is a rough approximation, it does show that the Clean Water Act of 1972 and its amendments in 1977, along with industrial conservation programs and a de-

cline in the lumber industry, have been important factors in reducing water use.

Region	Percentage	Applied Water Use (1,000 AF)
North Coast	14	24
San Francisco	9	107
Central Coast	8	22
South Coast	8	304
Sacramento River	6	44
San Joaquin River	10	49
Tulare Lake	10	52
North Lahontan	23 (rli 1 T) ~ , 9
South Lahontan	1 T	1 6 2
Colorado River	2	6
	Average 8	Total 619

The highest percentage of industrial water use in relation to total urban use is the pulp and lumber industry in the sparsely populated North Coast Region. In the San Francisco Bay Region, high-water-using industries include oil refining and electronics. Even with the decline in the steel, aerospace, and defense industries in the South Coast Region, it remains the largest manufacturing center in the United States. Industrial water use in the Central Valley remains dominated by the food processing, concrete, and chemical industries and petroleum refining in the Tulare Lake Region.

Governmental/Public Water Use

The percentage of total water use in this category declined 1 percent from 1980 to 1990. Most governmental users are classified and described in the SIC Manual, Division J, Public Administration. This division includes the executive, legislative, judicial, administrative, and regulatory activities of federal, State, local, and international governments. As was done in Bulletin 166-3, the Department has expanded the category to include all public functions that may not have been specifically identified in the SIC Manual, such as schools, public offices, military installations, public parks, public cemeteries, and golf courses, and other public-controlled entities. There are frequent cases of overlap with commercial activities

such as golf courses and hospitals. The use of the SIC code for this category may need to be modified in the future.

The governmental water use data presented in Table 2-12 may not be consistent with locally derived data because of the inclusion of many users considered in commercial or irrigation categories by others. Many types of governmental activities will use nearly the same water as similar commercial enterprises. Some current forecasting techniques group much of this category with commercial and use the public/other category for the remainder.

Region	Percentage 5		Applied Water Use (1,000 AF)	
North Coast				8
San Francisco		7		83
Central Coast		6		16
South Coast		6		228
Sacramento River		12		89
San Joaquin River		6		29
Tulare Lake		4		21
North Lahontan		10		4
South Lahontan		14		27
Colorado River		3		9
	Average	7	Total	514

There was no analysis of the total volume of governmental use in past bulletins; however, it has shown a slight percentage decrease of gross urban use since 1980.

Unaccounted Water

Unaccounted water was not identified in Bulletin 166-3. However, water production ranges from about 6 to 15 percent higher than water ultimately delivered to customers in each hydrologic region. The difference between water production and delivery to customers is called *unaccounted water*, which consists of actual losses in the delivery system including authorized and unauthorized uses.

Table 2-13 shows that the proportion of unaccounted water varies substantially in each region of the State. The quality of this data in the Central Valley is affected by the lack of residential metering in many areas.

Region	Percen	entage		Water Use (1,000 AF)	
North Coast		14		24	
San Francisco		8		95	
Central Coast		10		27	
South Coast		9		342	
Sacramento River		9		67	
San Joaquin River		6		29	
Tulare Lake		9		47	
North Lahontan		15 (7 10	110	6	
South Lahontan		10	1300	19	
Colorado River		14		42	
	Average	10	Total	698	

System losses were reported at about 8 percent for the City of Sacramento (Boyle Engineering, October 1991), 9 percent for EBMUD in 1986 (EDAW, December 1992) and 9 percent for MWD (PMCL, February 1990).

The percentage of statewide urban water that is unaccounted for has remained about the same between 1980 and 1990. There have been aggressive leak detection and repair programs by the Department and some local agencies. Such programs reduce urban applied water and are cost effective in most cases. The results of the Department's 1984 program managed by the Water Conservation Office were published in the Water Engineering and Management Magazine (May 1987). The program found that:

- an average of the 57 cooperating agencies found 10 percent unaccounted water,
- the maximum unaccounted water was 30 percent,
- over 2 years, almost 16,000 acre-feet were recovered, and

the benefit-to-cost ratio was almost three to one.

The results of this study indicate that substantial amounts of water could be conserved statewide by aggressive leak detection and repair programs implemented on a large scale.

Effects of Drought and Water Conservation on Urban Applied Water

The 1976-77 drought had a severe and immediate impact on per capita water use through enforced rationing programs and voluntary efforts on the part of water users. However, after recovery from the drought in 1978, a trend toward predrought consumption clearly began. Previous per capita use rates were reached in 1981 and slightly exceeded in 1984. Succeeding years were level until the start of the 1987-92 drought. When constraining measures were reinstituted about 1988, consumption rates again fell. Under these circumstances, it is difficult to assess the real effect of conservation education and other persuasive measures responsible for a general leveling of per capita water use.

The increase in water conservation efforts over the past 20 years is also forcing other changes in the way we manage water supplies. During the drought of 1976-77, many agencies were able to reduce per capita water demand sharply through a variety of water conservation measures. As more conservation measures are adopted, making permanent changes in the way we use water, there is less flexibility to reduce per capita use during droughts and other shortages. Estimates made in Bulletin 160-93 indicate that 435,000 acre-feet of urban applied water were conserved in 1990 compared to 1980, and that an additional 1,285,000 acre-feet of applied water reductions will occur by 2020 due to BMPs (Table 2-14).

Table 2-14 estimates 2020 urban applied water reduction and reductions in depletions for each hydrologic region of California.

Table 2-14. Projected 2020 Applied Urban Water Reductions and Reductions in Depletions by Hydrologic Region (thousands of acre-feet)

Region	Applied Water Reductions	Reductions In Depletions	
North Coast	65	55	
San Francisco	250	250	
Central Coast	30	30	
South Coast	610	490	
Sacramento River	110	25	
San Joaquin River	60	20	
Tulare Lake	65	20	
North Lahontan	5	0	
South Lahontan	50	10	
Colorado River	40	35	
Total	1,285	935	

Water Recycling and Gray Water

Two other water management options, reclamation and gray water use, are getting increasing attention in California.

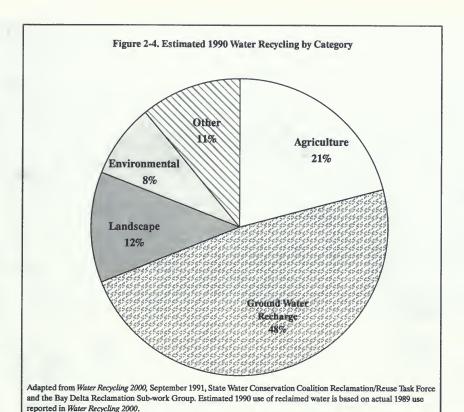
The 1990 level of water recycling is based on evaluation of data presented in Bulletin 160-93 from the report *Water Recycling 2000* (September 1991). Table 2-15 displays recycled volumes for 1990 by hydrologic region. The estimated type of recycling by percentage of the total volume is shown in Figure 2-4.

Table 2-15. 1990 Water Recycling by Hydrologic Region

Region	Total Water Recycled (1,000 AF/yr)		
North Coast	14		
San Francisco	36		
Central Coast	40		
South Coast	140		
Sacramento River	9		
San Joaquin River	24		
Tulare Lake	63		
North Lahontan	8		
South Lahontan	13		
Colorado River	7		
Total	354		

Bulletin 160-93 also projected that an additional 967,000 acre-feet per year would be produced by 2020 based on a recent report by the WateReuse Association of California (July 1993).

In 1992, the California Legislature approved and the Governor signed Assembly Bill 3518 to permit statewide use of gray water for landscape irrigation. The California Plumbing Code (Title 24, Part 5, California Administrative Code) defines gray water as untreated household waste water that has not come into contact with toilet waste.



Gray water use could help reduce the demand for potable fresh water over the long term. Most households produce between 24 and 36 gallons of gray water per person per day. Many population centers in California are located in areas where the climate requires landscape irrigation at least 7 months of the year, so gray water could replace potable water during that time. Gray water would generally only be practical in larger lots where adequate side clearances can be maintained for subsurface irrigation fields.

A more substantial use of gray water in residential areas would require major investments in plumbing and may not be practical for existing housing. The expected population increase between 1990 and 2020 is about 19 million people. If half these people live in single-family dwellings in new housing with gray water plumbing, the potential for gray water use, at 30 gallons per person per day, could be about 180,000 acre-feet of water in 2020.





California's climate, weather, demographic patterns, and other factors influence water demands.

Chapter 3. Factors Influencing Urban Water Use

This chapter discusses climatic, socioeconomic, and water conservation factors that influence per capita water use. More information on climatic factors is found in Appendix E.

Climatic Factors

Climate has a great overall influence on annual and seasonal changes in per capita water use. Climatic factors (temperature, precipitation, solar radiation, humidity, wind) operate in combination to influence the amount of water consumed by plants. Their effects differ with locality and fluctuate seasonally and from year to year.

The sun is the original source of all energy involved in the transformation of water from liquid to vapor. Solar radiation provides the energy for photosynthesis and plant growth. Factors such as humidity, wind, and temperature originate as a result of solar radiation. For this reason, California's sunny inland valleys have much higher rates of water use than coastal areas.

Temperature is the climatic factor that most influences the water use of landscape vegetation. Seasonal per capita water use values reflect the changes in urban landscape water demands as users respond to changes in temperature.

Precipitation most effectively reduces the need for supplemental landscape irrigation water when it occurs during late spring through early fall when vegetation is actively growing. In winter, landscape water requirements are sharply reduced when dormancy, or near dormancy, of warm weather turf species such as Bermuda grass and ornamental shrubs and trees lowers or eliminates the need for irrigation.

High humidity suppresses plant water use. The evaporating power of the atmosphere increases under drier conditions, causing water to be used at a greater rate by plants. In coastal areas, the humidity remains uniformly high because of proximity to the ocean and prevailing westerly winds.

Wind accelerates water use. Air movement removes saturated air from contact with moist soil, water, and leaf surfaces and replaces it with warmer and drier air from adjacent areas. Plants exercise partial control over water loss from their leaves, while moisture loss from water and soil surfaces increases in relation to wind speed.

Evaporative Demand

The evaporative demand is the cumulative influence of these climatic variables on the rate of water evaporation. Numerous studies have shown that water evaporation from a standard water surface resolves the climatic influences into one easily measured variable that closely correlates to plant water use. The standard water surface most commonly used in California is the U.S. Weather Bureau Class A evaporation pan.

Evapotranspiration

The climatic factors mentioned previously drive the processes of evapotranspiration (ET). The components of ET are transpiration, the movement of water through the leaves into the air as vapor to cool the plant, and evaporation of water from the plant surface or soil adjacent to the plant.

Evaporative demand based on evaporation of water from a standard U.S. Weather Bureau Class A evaporation pan in an irrigated pasture or equivalent environment can be used as an index for evapotranspiration.

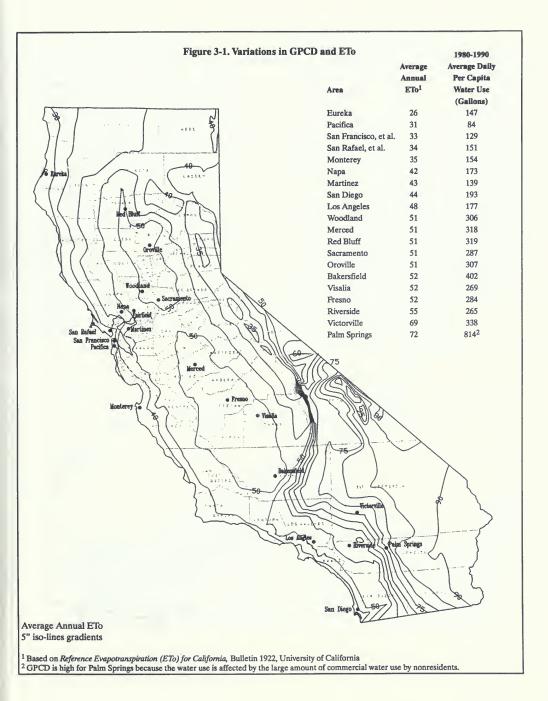
The evapotranspiration of cool-season grass, or *reference* evapotranspiration (ETo) can be used as an index of land-scape water requirements. The map in Figure 3-2 (previously published in DWR Bulletin 113-3) shows average annual ETo in California. These values range from 30 inches in the extreme northwest in Del Norte County to more than 90 inches in the desert of southeast California.

The lines of equal average annual ETo extend generally from north to south, with higher values in the south. The 60-inch iso-line is characteristic of the Central Valley and also extends through Central Los Angeles County. The hot summers in the Central Valley are offset by the warm-

er winter climate in Los Angeles, resulting in about the same average annual ETo for both areas. The effect of seasonal variations in ETo on plant water use is reflected in per capita water use values.

As determined by the Department, variations in per capi-

ta water use and ETo, precipitation, and July temperatures for 20 communities in California are displayed in Figure 3-1, Figure E-1, and Figure E-2 (Appendix E) respectively. These figures indicate that climatic factors alone cannot explain all differences in per capita use.





Seasonal Water Use

The variation in seasonal water use in any water year is directly related to the variation in the climatic and meteorological factors. Previous issues in the Bulletin 166 series focused primarily on outdoor use and its relationship to evapotranspiration. The seasonality of water use is represented in Figure 3-3. This graph also illustrates how the seasonality of water use varies depending on the type of water year. The water use between October and April increases in drought years versus average water years because less precipitation means more landscape irrigation.

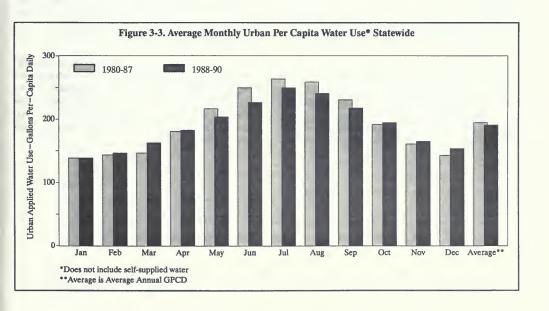
A thorough discussion of the seasonality of water use is found in <u>Seasonal Components of Urban Water Use in Southern California</u> (PMCL, 1990). The seasonal use was derived by the minimum month method of analyzing water use records. Although most of the residential seasonal water use is due to landscape irrigation, the seasonal variation in commercial, industrial, and governmental uses is the result of space cooling and process cooling needs as well. The seasonal water uses related to the categories of use in Southern California are displayed in Table 3-1.

Seasonal Use: An aggregate of end uses of water (e.g., lawn watering, cooling) that varies from month to month in response to weather conditions and other seasonal influences.

Nonseasonal Use: An aggregate of end uses of water (e.g., toilet flushing, washing machine use) that remains fairly constant from month to month because these end uses are not sensitive to weather conditions and other seasonal influences.

Minimum Month Method: Seasonal and nonseasonal components of urban water use in the major classes are often estimated by the minimum month method. For a given year, this method first determines the month of lowest use; this amount is assumed to be constant throughout the year. By definition, seasonal use is zero in the minimum month and will vary with weather conditions during the remaining months. Seasonal use typically peaks during the hottest summer months.

Source: PMCL, 1990



Category	Baseline	Seasonal
Single-family residences	69	31
Multi-family residences	84	16
Commercial	75	25
Industrial	80	20
Public	56	54

For this bulletin, the Department analyzed water production data from 1980-87 for 68 cities in various regions of California using the minimum month method. Transects were followed from the coast to the interior. The percentage of seasonal use is displayed in Table 3-2.

Table 3-2. Perce in Var	ntage of Seaso ious Regions o		
Region	Coastal Plains	Coastal Valleys	Interior Valleys
Northern	26		55
Central	39	47	56
San Joaquin	32	47	58
Southern	34	38	54

the minimum month of use.

Figure 3-4 illustrates the annual variation in seasonal water use for Los Angeles and Fresno based on the minimum month method. While baseline water use for both cities is essentially the same, the seasonal use in Fresno is greater due to the large landscape irrigation requirement during summer in the Central Valley. The large sea-

sonal component reflects in Fresno's annual per capita water use. Table 3-3 compares baseline and peak seasonal use, percentage seasonal use, and annual per capita use for Los Angeles and Fresno.

Table 2.2 Comparison of Second Water Hee and

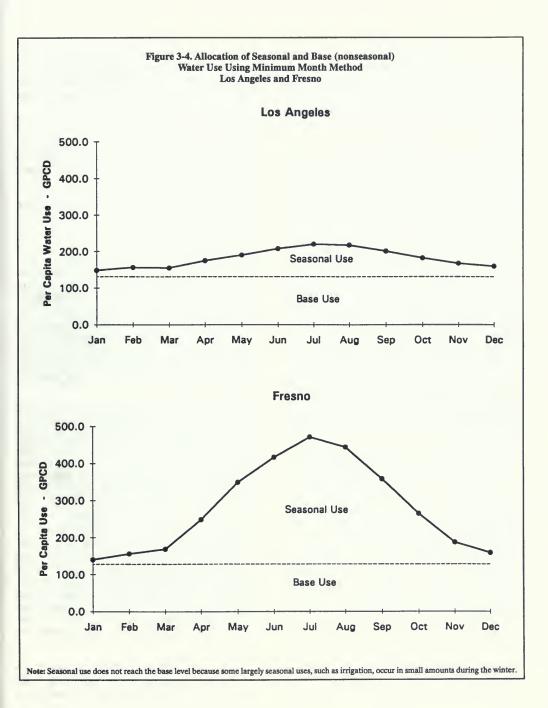
Annual Per Capita Water Use in La Fresno During 1980-8	os Angele	
	Los Angeles	Fresno
Baseline use (gpcd) (March 1982)	127	128
Peak seasonal use (gpcd) (July-Aug 1984)	90	342
Percentage seasonal use	30	55
Annual per capita water use (gpcd)	186	284
Source: DWR data (Appendix A)	1	11.3

Seasonal Versus Outdoor Use

The difference between seasonal water use and outdoor use may need further explanation. Since landscape irrigation, car washing, etc., may occur in any month of the year, the minimum month method may underestimate outdoor use and, therefore, overestimate indoor use. Indoor water use may also increase during the summer.

The PMCL seasonal use study (February 1990) indicated that outdoor use was almost 9 percent higher than that estimated by seasonal use in Southern California. Of the outdoor use, 90 percent in the residential sector and 84 percent in the non-residential sector was due to irrigation.

For the statewide analysis of urban water use in this bulletin, it is assumed that the minimum month determined over the 7-year period (1980-87) approximates indoor use. This is considered a valid assumption because the difference in volume of water between seasonal and outdoor use is small and affects the statewide analysis of total urban water use very little.



Socioeconomic Factors

Climatological factors help explain much of the water use in various regions. Other factors affecting water use range from economic to esthetic factors and cover a wide range of activities.

Income

A previous Departmental study found that personal income correlates with unit water use in various areas of the South Coast study area (DWR, 1959). Cities with a large per capita income generally used more water per capita than cities with lower per capita income. A recent update of that report shows a similar relationship of consumption of water to household income that is illustrated in Figure 3-5.

Large residential lots in higher income areas require more irrigation water and water costs tend to constitute a smaller fraction of the household financial budget. Also, higher income families may own more water-using appliances. However, this trend may not be as obvious currently because most families have major appliances.

Swimming pools are normally associated with higher income families in single-family residences. One method estimates that swimming pools, compared to ordinary landscaping, add about 40 gallons per housing unit per day to single-family residential use in Southern California (PMCL, 1990).

Evaluating Urban Water Conservation Programs: A Procedures Manual (February 1992), a report prepared for California Urban Water Agencies supports the presumption of higher water consumption with higher income levels. It states, "Empirical studies clearly show that increasing income (in real terms) will cause an increase in water use in the residential sector." The elasticity of income in single-family sectors varies from 0.3 to 0.6. This means that a 10 percent increase in income may cause a 3 to 6 percent increase in water use. Further, a number of new urban water-use-forecasting methods include income as one explanatory variable.

Water Price

Water pricing structures generally serve as a means for water suppliers to recover costs of delivery to the end users. When California's developed water supply was deemed more than adequate to serve the existing population, urban water suppliers used a declining block pricing structure, where the unit cost varied inversely to the quantity of water used. As water shortages have become more common, suppliers have tended to discontinue such rate structures.

Pricing can work to influence demand by providing an incentive for customers to manage water use more carefully. The customer's sensitivity to pricing may be enhanced by rate structures that increase the cost of water at a constant or increasing rate as use increases.

Chapter 4 contains a detailed discussion of water pricing that is continued in Appendix F.

Water Meters

Today, virtually all large communities in California are at least partially metered. In 1991, Senate Bill No. 229 enacted the Water Measurement Law (Section 110 of Chapter 8 of Division 1 to the Water Code) requiring all new potable water service connections be metered after January 1, 1992. Generally, commercial and manufacturing businesses (other than self-supplied) have been metered for many years. Some unmetered or partially metered communities are still found in the Central Valley, foothills, and mountains, primarily involving residential accounts.

Bulletin 166-1 (DWR, 1968) documented the effects of metering in the San Joaquin Valley (southern portion of the Central Valley). It reported a 42 percent lower per capita water use in metered cities compared to flat rate communities. This study compared metering of all water users rather than restricting the study to only residential users. A Study of the Proposed Requirement for Mandatory Water Metering for Municipalities or for Domestic Water Systems (Arthur D. Little, Inc., 1974) showed that flatrate services in 1970 averaged 330 gpcd in the Central Valley of California compared with 230 gpcd for metered cities, a 43 percent difference. However, this report also concluded that (1) the cost of metering may outweigh its benefits, (2) non-metered cities normally are close to inexpensive supplies, and (3) effective metering could cause landscaping to bear the brunt of water savings. Currently, metering would not have as dramatic an effect because of conservation activities causing a "hardening" of demand.

Generally, metering caused a reduction in water use and provided useful planning data for establishing a rate structure. While there is still opposition to metering in parts of the Central Valley and other outlying areas, the trend toward metering all deliveries in California continues. In some agencies, metering and pricing are linked to indoor versus outdoor water usage.

Water-Using Appliances and Other Household Uses

More water-using household appliances came into use during this century. A variety of these water-using or water-operated fixtures were added to homes and early models were not designed to save water. This contributed to increasing per capita water use trends. Most newer models on the market now require far less water than their predecessors. For example, new horizontal axis washing machines are being introduced that reduce indoor water use further. The introduction of new water-using devices is also diminishing.

Community Make-up

A number of sizeable communities surrounding large metropolitan areas and within commuting distance of city centers have developed as *bedroom communities* for people working in industrial and commercial city core areas. Bedroom communities generally expand rapidly, but initially have little growth in job-supporting industries.

As bedroom communities enlarge, they sometimes develop their own manufacturing and services industries and become more self-sufficient. For example, in recent decades communities in San Mateo County that were formerly small residential satellites of San Francisco have matured into predominantly industrialized areas. This increased industrialization in San Mateo County and in neighboring Santa Clara County has led to higher local per capita water use rates.

Water use trends are affected by changes in the patterns of land use. As cities age and enlarge, the centers are progressively rezoned for higher population density uses under urban renewal or similar programs. Single-family dwellings are replaced by multiple-unit structures with some land set aside for commercial strips and other industrial development.

In a small community, the addition or removal of a single high-water-using entity, such as food processing, of significant size can noticeably increase or decrease the per capita water use. The effect can be less pronounced for a major city where one addition or removal of a water-intensive industry may have minimal impact.

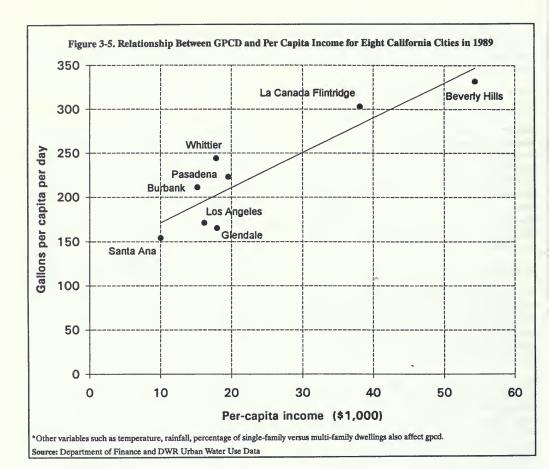
Many communities have an influx of non-residents (daily, on weekends, or seasonally) who are probably counted as permanent residents of another community and are not considered in per capita water use calculations. Relying solely on gross per-capita use values in these communities can be misleading.

Residential Density

Population density is higher in apartments than in single family dwellings. Per capita interior household water use is slightly higher in single family homes than apartments. Also, the rate of exterior water use to irrigate landscape for apartment dwellers is somewhat less than for persons living in single family dwellings, due in part to more persons sharing the landscaped area. For example, in the Metropolitan Water District service area, the average outdoor use was 92 gpcd for single family dwellings and 79 gpcd in multifamily units (MWD, 1990).

Between 1970 and 1980, there was a decrease in the percentage of single-family dwellings to multiple-family households. This trend leveled off in the 1980s. Table 3-4 shows the percentages of single family and multiple family dwellings in California between 1970 and 1990. The reduction in proportion of single-family dwellings led to the leveling in the statewide per capita water use.

		i-ramily
1970	1980	1990
75.9	63.1	62.7
24.1	36.9	37.3
100.0	100.0	100.0
	1970 75.9 24.1	75.9 63.1 24.1 36.9



Persons per Household

In 1970, an average of 3.3 persons lived in single family dwellings and 2.4 persons occupied the average apartment unit (Table 3-5). The overall effect of the decrease in persons per household during the 1970s was to increase per capita water use by increasing landscape water requirements per person. Conversely, increasing persons per household lowers per capita residential water use. An increase in persons per household, which occurred during the 1980s, contributed to a leveling of the statewide gpcd.

	1970	1980	1990
Multi-Family	2.4	2.1	2.3
Single Family	3.3	3.0	3.1
All Households	3.1	2.7	2.8

Water Conservation

In recent years, urban water conservation has contributed to the leveling off of the historically upward trend of per capita water use, even before the droughts of 1976-77 and 1987-92. In the early 1970s, a number of California water suppliers established conservation programs and the State increased its efforts to disseminate information and help local agencies implement programs to reduce water consumption. The need to stretch existing water supplies to meet the needs of a growing population was recognized.

The 1976-77 drought helped prompt the incorporation of water demand management into the State's laws and institutions. California was the first state to establish efficiency standards for toilets in 1978. The same year, the California Energy Commission established flow rate standards for shower heads and faucets, conserving both water and the energy used to heat it.

A report prepared for the California Urban Water Agencies by the Planning and Management Consultants, Ltd. (February 1992), states that "... an important change in water supply planning involves the use of water demand management (or water conservation alternatives)... Comprehensive water supply management requires the evaluation of two basic sets of alternatives: (1) those alternatives that reduce water use and/or loss, and (2) those alternatives that augment supplies. Taken together, these alternatives provide the basis for efficient water management."

Urban Best Management Practices

As a result of hearings held by the State Water Resources Control Board on water rights affecting the San Francisco Bay and Delta, a coalition of urban and environmental water interests formed the California Urban Water Conservation Council. In 1991, the Council developed a voluntary Memorandum of Understanding that will lead to implementation of 16 Best Management Practices for urban water users and requires signatories to report on their status of implementation of the BMPs. The Council is continuing its efforts toward quantifying the effects of these practices and developing guidelines to help water suppliers determine the effectiveness of BMPs for their systems.

As of May 1994, 111 water suppliers, serving at least 80 percent of the State's population, plus 16 public advocacy

groups and 47 other interested parties, had signed the MOU.

Initial Best Management Practices. As stated in the MOU, the initial BMPs that signatory water suppliers have committed to implement are:

- 1. Interior and exterior water audits and incentive programs for single family residential, multifamily residential, and governmental/institutional customers.
- 2. Plumbing, New and Retrofit.
 - a. Enforcement of water-conserving plumbing fixture standards including requirements for ultra low flush (ULF) toilets in all new construction beginning January 1, 1992.
 - b. Support of State and federal legislation prohibiting sale of toilets using more than 1.6 gallons per flush.
 - c. Plumbing retrofit.
- 3. Distribution system water audits, leak detection, and repair.
- 4. Metering with commodity rates for all new connections and retrofitting existing connections.
- 5. Large landscape water audits and incentives.
- Landscape water conservation requirements for new and existing commercial, industrial, institutional, governmental, and multifamily developments.
- 7. Public information.
- School education.
- 9. Commercial and industrial water conservation.
- 10. New commercial and industrial water use review.
- 11. Conservation pricing.
- 12. Landscape water conservation for new and existing single family homes.
- 13. Water waste prohibition.
- Water conservation coordinator.
- Financial incentives.
- 16. Ultra low flush toilet replacement.

Potential Best Management Practices. The MOU commits the California Urban Water Conservation Council to study potential measures to determine whether they meet the criteria to be designated as BMPs. These include:

- Rate structures and other economic incentives and disincentives to encourage water conservation.
- Efficiency standards for water using appliances and irrigation devices.
- Replacement of existing water using appliances (except toilets and showerheads whose replacements are incorporated as Best Management Practices) and irrigation devices.
- 4. Retrofit of existing car washes.
- Gray water use.
- 6. Distribution system pressure regulation.
- 7. Water supplier billing records broken down by customer class (e.g., residential, commercial, industrial).
- Swimming pool and spa conservation including covers to reduce evaporation.
- 9. Restrictions or prohibitions on devices that use evaporation to cool exterior spaces.
- 10. Point-of-use water heaters, recirculating hot water systems and hot water pipe insulation.
- 11. Efficiency standards for new industrial and commercial processes.

Over time, additional cost-effective measures will probably be identified and implemented as technology improves and alternative supplies become more expensive.

Urban Water Management Planning Act

Assembly Bill 797 enacted the Urban Water Management Planning Act in 1983. As an amendment to the Water Code, this act requires urban water suppliers serving more than 3,000 customers or more than 3,000 acre-feet annually to prepare and file with the Department a comprehensive water management plan including specified elements. The first plans were due in 1985, with updates required at least every 5 years. Currently over 300 public and privately owned water suppliers are reporting.

Landscape Water Use and Conservation

Landscape water use is directly related to a community's climate, makeup, housing mix, population density, and income.

In recent years, the Department's Agricultural Mobile Lab Program has focused on landscape irrigation system evaluations. During 1992, the Department contracted with UC Davis (Bowers and Hanson, 1993) to analyze 363 landscape irrigation evaluation reports in San Diego, Riverside, and Ventura counties. The mobile lab program was developed primarily to provide management direction and not to gather basic data. However, the data on distribution uniformity and irrigation efficiency are certainly useful when only a few landscape water-use data sets are available. The distribution uniformity and irrigation efficiency statistics are presented in Table E-1 (in Appendix E) and Table 3-6 respectively.

Although difficult to apply to landscapes, the methods developed to estimate landscape water use are based on concepts developed for agriculture. Landscapes include a wide variety of species, planted in different densities and in varying microclimates (Table E-2). UC Cooperative Extension Leaflet 21493 (1991) suggests an approach for developing an overall landscape coefficient based on a species factor, density factor, and microclimate factor. This coefficient is determined by multiplying the three factors found in Table E-2.

Table 3-6. Statistics for Irrigation Efficiency for Landscapes Evaluated by the Mobile Irrigation Laboratory

District	N	Mean	Min	Max	Range
Ventura	12	69.1 a `	30	103	73
Riverside	106	61.3 a	17	96	79
Mission	24	59.9 a	8	87	79
Coachella	149	41.6 b	13	84	69

Source: An Analysis of Mobile Laboratory Irrigation System Evaluation Data: Urban Systems, University of California, Davis, 1993

Probably the most comprehensive publication on landscape water efficiency was published by the American Water Works Association (Bennett and Hazinski, 1993). This publication discusses the water-budget approach, where landscapes are metered, and the checklist approach for unmetered landscapes.

Water demands for landscaping is expected to increase as population growth moves inland. In examining the data for 1980 from Bulletin 198-84 (DWR, 1984) about 2 million acre-feet were allocated to exterior landscape uses in California. By 1990, this value had risen to over 3 million acre-feet.

PMCL (1991) analyzed residential landscape irrigation in Southern California. In this study, households with

deficit irrigations exceeded households with surplus irrigations 56 percent to 44 percent. The actual percentage of deficit irrigation is probably higher than reported because all rainfall was considered effective at reducing the irrigation requirement.

In North Marin Water District, a study on water savings from irrigation scheduling on large turf sites at schools and parks (classified as governmental) showed that a 16 percent reduction in water usage could be expected (NEOS Corporation, 1991). However, a similarly scheduled private park showed a water savings of only 7.7 percent.

A study carried out for East Bay Municipal Utility District (1992) compared daily water consumption for single family homes having water-conserving landscapes with traditional turf-oriented landscapes. The water savings were estimated at 42 percent for the front yards of homes using water-conserving landscapes.

In September 1990, Assembly Bill 325 was passed and added Article 10.8 to Chapter 3, Division 1 of Title 7 of

the Government Code. This legislation required the Department to develop a model landscape ordinance. The ordinance used a water budget approach relying on ETo data in the required landscape design. The water budget specified an average landscape coefficient of 0.5, divided by a minimum irrigation efficiency of 0.625, to yield an ET Adjustment Factor of 0.8. This factor was then used to adjust the average annual ETo.

Water conservation will undoubtedly continue to play a significant role in balancing California's water supply with urban, agricultural, and environmental water needs. Proven conservation measures will be implemented by more agencies and new measures will gain acceptance. Current measures for landscape conservation have yet to affect statewide landscape water use noticeably. However, BMPs and ordinances for landscape water use have only been adopted since 1991 and 1992. Agencies will need to manage water in new ways and prepare differently for shortages as water use continues to become more efficient.



Lake Perris, in Riverside County, receives water at mile 450 of the Governor Edmund G. Brown California Aqueduct.

The cost of water varies with the distance it is transported from source to user.

Chapter 4.

Water Pricing

Over 10,000 public and private water agencies provide water to communities throughout California. These include municipal water companies, independent special districts, and private purveyors regulated by the California Public Utilities Commission. More than 300 of these agencies serve 3,000 or more connections.

Most of these local agencies are directly involved in the retail sales of water to urban users. However, some only wholesale water to other agencies. In addition to local agencies, the U.S. Bureau of Reclamation operates the Central Valley Project (and other federal projects) and the California Department of Water Resources operates the State Water Project. Water supplied from these projects is sold to local retail and wholesale agencies throughout the State. Sometimes water supplies will pass through one or more wholesalers and a retailer before reaching the final users.

Factors Affecting Water Prices

Many factors influence the retail water prices levied by urban water agencies. Some of these are discussed below.

Source

Water prices depend greatly on the costs of obtaining the water supplies. For example, the cost of diverting water from a river and using it on adjoining land can be less than \$2 per acre-foot. In contrast, the cost of sea water desalination is about \$2,000 per acre-foot.

Transportation

Another significant factor is the distance water must be transported from the source to the ultimate place of use. For example, the State Water Project delivers supplies to users in northern, central, and southern California. Water delivered to Southern California must travel through hundreds of miles of aqueducts and be pumped over a mountain range before reaching the final destination. Like a train ticket, SWP transportation costs increase

with the distance traveled, although power revenues may offset part of these costs.

Costs

Generally, water provided for urban needs costs more than that for agriculture. This is because urban supply systems are more complex. To meet domestic water quality standards, urban systems often involve costly local facilities for system regulation, treatment plants, distribution systems, water meters, and system operation, including meter reading and customer billing. In addition, some water prices include costs for waste water treatment. However, agricultural water prices are at the farm head gate, or edge of property, and seldom need treatment. Farmers incur additional costs to distribute water supplies throughout their farms.

Water treatment costs can be a significant component of total water costs to urban water agencies. These agencies must adhere to drinking water standards set by the federal government (the Federal Safe Drinking Water Act of 1974, amended in 1986) and by the State government (the Safe Drinking Water Act of 1976, amended in 1989). Amendments to these acts may significantly increase future water treatment costs because of more stringent water quality standards.

Weather

During years of normal or above-normal precipitation, most agencies' supplies are adequate to meet current demands. But drought years can significantly disrupt the availability of water and can affect agency water rates. For example, during the 1987-92 drought, many water purveyors adopted more conservation-oriented water rates. Several even implemented drought penalty rates designed to drastically reduce water use. These policies resulted in a substantial reduction in average water use. However, an unwanted consequence of reduced water use for metered systems was reduced revenues to the agencies, which still must pay their fixed costs plus the costs of expanded conservation programs. Hence, to remain solvent many water agencies had to increase retail water prices several times.

Water Pricing Policies

The policies adopted by the various water agencies will also significantly affect the retail prices charged to consumers. Some agencies use water prices to fully recover the costs of acquiring and delivering supplies, whereas others use a combination of water prices and local property taxes. Policies concerning the use of meters and rate structure are also important. Although most urban retail agencies in the State use meters to monitor customer use and to levy charges, some (mainly in the Central Valley) do not. Typically, the costs to consumers of using unmetered supplies are less than if those same supplies were metered. With metered water, customers pay for all water used. In contrast, unmetered water customers pay a flat rate regardless of quantities.

Where supplies are metered, rate structure becomes important. For example, most agencies have switched from declining block rates (where unit water costs decreased with increasing usage) to either constant or increasing block rates. These rates encourage water conservation.

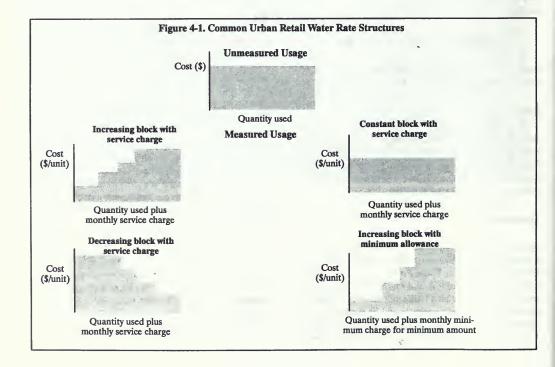
Urban Retail Water Prices

Urban retail water prices are very complex because of the large number of agencies and different pricing policies in use throughout the State. In addition to differences among the water agencies, each agency is likely to have different pricing policies for different customer classes, such as residential, commercial, and industrial.

Rate Structure

The most common rate structures include a monthly service charge plus either an increasing, constant, or decreasing per unit block rate. With an increasing block rate, increasing rates are charged for higher water consumption. With a constant block rate, a constant rate is charged for all levels of consumption. In contrast, a declining block rate structure has decreasing rates for higher water consumption. However, most cities have switched away from declining block rates to encourage water conservation.

An agency's pricing policies are reflected in its rate structures. Figure 4-1 illustrates some of the common urban rate structures.



A variation of these rate structures is the use of a minimum monthly charge instead of a service charge. With a minimum monthly charge, a minimum amount of water use is allowed at a certain rate. However, consumption over the minimum amount is then subject to a per unit charge.

Another type of rate structure is a flat rate, where the customer pays a set amount each month regardless of the amount of water consumed. Flat rates are still found in the Central Valley where some cities do not have residential water meters.

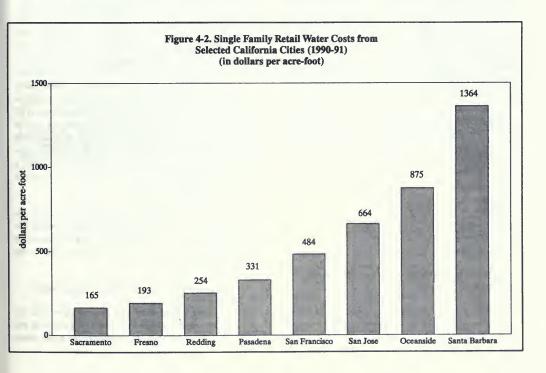
Because of the factors discussed at the beginning of this chapter, there is tremendous variation in water costs throughout the State. To illustrate this, Figure 4-2 compares 1990-91 single family retail water costs (on a cost per acre-foot basis) for selected California cities. Because of the prolonged and severe drought, some of these water costs may be higher than what would have been expected for a non-drought year. This is particularly true for Santa Barbara, which enacted strict drought penalty rates to encourage additional water conservation. However,

the underlying relationships of water costs in the State shown by the figure are still valid—water costs generally increase from north to south and water costs are usually less in the Central Valley compared to coastal locations.

The Department recently compiled 1990-91 water use and cost information for many water agencies throughout the State. Based on this information, the Department estimated average monthly water costs (i.e., water bills) to the different customer categories for these agencies. This information is presented in Appendix F: Urban Retail Water Costs.

Urban Wholesale Water Prices

Numerous agencies within the State wholesale water supplies to other agencies, which ultimately deliver these supplies for urban or agricultural uses. The two largest agencies are the U.S. Bureau of Reclamation and the California Department of Water Resources. Two of the larger local wholesaling agencies are the Metropolitan Water District of Southern California and the San Francisco Water Department. Each agency has its own pricing policies.



U.S. Bureau of Reclamation

USBR operates the Central Valley Project, which delivers about 7 million acre-feet per year to contractors in the Valley. These supplies are used primarily for agriculture, although there are some municipal and industrial deliveries.

Municipal and industrial contractors are charged cost-ofservice rates. Preliminary 1993 M&I cost-of-service rates range from about \$4.30 to over \$140 per acre-foot.

USBR pricing policies are undergoing significant revisions as the result of the Central Valley Project Improvement Act of 1992. Several provisions of this act will potentially influence USBR water prices, including requirements for pricing reform to encourage conservation, metering water use, and fish and wildlife restoration activities.

California Department of Water Resources

DWR operates the State Water Project, which currently wholesales water to 29 contractors located in the following service areas: Feather River, North Bay, South Bay, San Joaquin Valley, Central Coastal, and Southern California. The primary components of SWP water costs include a Delta water charge and a transportation charge. The Delta water charge is paid by all contractors and recovers capital and operation, maintenance, and replacement costs, plus interest, associated with the SWP conservation (storage) facilities. The transportation charge is paid by contractors served by transportation facilities. This charge recovers capital and OM&R costs, plus interest.

In 1992, average water costs to the SWP service areas were as follows:

Service Area	Cost/AF
Feather River	\$ 20
North Bay	\$ 166
South Bay	\$ 80
San Joaquin Valley	\$ 49
Central Coastal	\$ 626
Southern California	\$ 243

The Metropolitan Water District of Southern California

MWD is composed of 27 member agencies; 14 are also wholesale agencies that serve their own member agencies (such as the San Diego County Water Authority). In 1990,

the total population of MWD member agencies was about 14.9 million people. MWD deliveries to member agencies in 1990 totaled about 2.5 MAF. MWD imports its supplies from the SWP and Colorado River. In addition, MWD works with member agencies to improve conjunctive use of local ground water supplies.

MWD's water pricing structure for member agencies includes five service classes: non-interruptible (primarily M&I uses), interruptible (primarily agricultural and ground water recharge uses), emergency, seasonal storage, and reclaimed. In addition, within each of these classes (except reclaimed), a distinction is made whether supplies are treated or untreated. The 1993 rates for these classes were as follows:

Class Non-interruptible	Cost/AF
Untreated Treated	\$318 \$385
Emergency	
Untreated Treated	\$954 \$1,021
Seasonal Storage	
Untreated Treated	\$208 \$253
Reclaimed	\$113

San Francisco Water Department

SFWD provides both wholesale and retail water supplies, with wholesale users representing about 60 percent of the city's deliveries. Wholesale supplies are delivered to 33 cities and water districts. In 1990, SFWD served a total of about 2.6 million people. SFWD obtains its supplies from the Tuolumne River in the Sierra Nevada (Hetch-Hetchy system) plus local reservoirs in the Bay Area. In 1990, a connection was installed to allow transfers from the SWP to the Hetch-Hetchy system.

As of July 1, 1992, SFWD was charging its wholesale customers about \$379/AF plus a service charge based on the customer's meter size. This service charge ranges from under \$10 per month to over \$5,000, depending on the size and type of meter.

Property Taxes and Other Assessments

Although most urban water customers receive bills for the amounts of water delivered, these bills often do not reflect the total cost of water supplies to the users. Many local water agencies also collect property tax revenues and other assessments. For example, during the 1989-90 fiscal year, the MWD collected about \$90 million in advalorem property taxes, annexation charges, and allocated county-wide taxes on utilities. These revenues represented about 16 percent of the combined MWD water sales and tax levy revenues for that fiscal year.

Another example of the use of assessments is the Kern County Water Agency. KCWA has contracts with its member agencies to recover the costs of imported SWP supplies. Most of these costs are recovered through payments from those agencies receiving the supplies. In turn, these agencies obtain revenues from user charges and assessments levied directly on the water user. However, KCWA also uses an ad-valorem zone-of-benefit assessment to recover some of the cost for agricultural SWP supplies. The premise is that other individuals besides the water users benefit from the project. Delivery of SWP supplies improves ground water levels and benefits the local economy. Others besides the direct water user should therefore share in the project costs.

KCWA's SWP water used for urban needs is not supported by zone-of-benefit assessments, except KCWA levies a special zone-of-benefit to pay for SWP water used by its Improvement District No. 4. (ID No. 4 includes most of the urban Bakersfield area and is KCWA's largest user of urban SWP water supplies.) This special zone-of-benefit is in lieu of a contract for water service, as with KCWA's other member agencies.

Urban Ground Water Costs

Local water agencies provide supplies to most residential and commercial customers in the State. Within the industrial sector, small manufacturing firms also obtain supplies mainly from water agencies. However, many large water-intensive manufacturing firms (such as refineries and chemical manufacturers) have developed their own ground water supplies.

Ground water costs vary widely throughout the State. Many factors influence these costs, including depth to ground water, electricity rates, pump efficiencies, and treatment requirements. Typically ground water costs are less than the costs of agency-supplied surface water. Table 4-1 presents ranges of urban ground water costs for the hydrologic regions. These costs include capital, operations (including pumping energy costs), maintenance, replacement, and treatment costs. These costs were obtained from a survey of water agencies.

11,010	gic Region
Hydrologic Region	Ground Water Costs (\$/acre-foot)*
North Coast	75-85
San Francisco	85-330
Central Coast	200-300
South Coast	45-190
Sacramento River	50-80
San Joaquin River	70-270
Tulare Lake	80-175

120-190

85-90

115-275

Table 4-1, 1992 Urban Ground Water Costs by

Source: Bulletin 160-93, Table 6-6

North Lahontan

South Lahontan

Colorado River

^{*}These costs are higher than pumping raw water for agricultural use because capital, operation, maintenance, replacement, and treatment costs are greater.



Forecasts for future water demands are difficult because they will be affected by where future generations live, the jobs they hold, and how they use and conserve California's water resources.

Chapter 5. Forecasting Water Demand in California

Urban water use forecasting is an essential component of the development of the California Water Plan. Reliable estimates of future water use are needed by all water purveyors to plan for an adequate future water supply and to evaluate the effects of water conservation programs on applied water demand. This chapter provides an overview of commonly used forecasting techniques and introduces the Water Savings Simulation Program, a new direction for Department forecasting efforts. Details on the development and preliminary testing of the WSSP are contained in Appendix G.

Methods of Forecasting Water Demand

Water use forecasting methods relate expected changes in one or more explanatory variables to future water use. The various methods differ in the number of explanatory variables and the presumed effect of these variables on current and future water use. Early forecasting methods relied solely on service area population as the explanatory variable, assuming a direct relationship between population growth and applied water demand. However, as discussed in Chapter 3, water demand may grow at a different rate than population, according to the various factors that affect water use.

Water use forecasting techniques can be classified as one of four general methods (Table 5-1). There is a wide range in the sophistication and data requirements among these methods. In general, the more complicated are the most data intensive. Following is an overview of each method beginning with the least complex.

Table 5-1	. Urban Water Use Forecasting Methods
Method	Basis of Water Use Forecast
Time series	Extension of historical water use trends
Water use coefficient	Historical water use data; historical and pre- dicted tally of end users
Regression	Historical water use data; historical and pre- dicted values of one or more explanatory vari- ables
Component	Historical water use data; historical and pre- dicted values of one or more explanatory vari- ables for each defined component of urban wa- ter use

Time Series Analysis

Water use forecasting using time series analysis is based on the assumption that past trends in water use will continue into the future. Implicit in this assumption is that relationships between water use and the explanatory variables will either remain unchanged or continue to change as they have in the past. This method is perhaps the most basic forecasting technique and probably the most limited in accuracy for long-term forecasting.

Time series analysis is simple to perform and can be used alone or in conjunction with another method. Urban applied water demand is forecast by simple extrapolation of a predefined relationship. The relationship can be determined by expert judgement, graphical extension of historical data, or mathematically.

Time series techniques are the least data intensive of the four general methods. Records of past water use are the only input necessary. Time series analysis provides acceptable results over the short term, especially when there is an abundant water supply and steady socioeconomic growth.

If historical population data are available, the time series method can be used to project water use through time on a unit basis (e.g., per capita or per connection). The resulting water unit use coefficients are used in combination with estimates of population growth rates to forecast future water use. This combination method has been used by the Department to forecast statewide urban water demand.

Water Use Coefficient Methods

Unit water use coefficients, such as per capita water use, are valuable for studying water consumption trends and for forecasting future consumption. The initial values of the coefficients are derived by dividing total water consumption for a category of water use by the number of units, or end-users, within the category. Water use is forecasted by multiplying the water use coefficient by the projected number of end-users at the forecast year. The water use coefficient can be assumed fixed through time or

projected by extrapolation to change according to past water use patterns.

End-users are specified for each category of water use primarily on the basis of past correlation with water consumption. The end-user is typically defined as a person, an employee, or a service connection. The per capita water use approach is the most commonly used water use coefficient method, where the end-user is the service area resident and water use is expressed on a per person (i.e., per capita) basis.

The water use coefficient method can be used to forecast overall water use or specific categories of water use. Geographic variations in explanatory variables can be accounted for by performing forecasts for each subarea of the water service area. The single explanatory variable in this method is the number of end-users.

The water use coefficient method is widely considered to be the most simple and inexpensive method to forecast water use with some accuracy. The only data requirements are historical and projected unit population, and historical water use. However, this method in basic form fails to take into account many important variables that influence water use, such as changes in the ratio of single to multifamily dwellings, climate, commercial and industrial growth, income, and price of water. Therefore, forecast accuracy may decrease sharply in the mid- to long-term period.

Regression Analysis

Regression methods employ statistical techniques such as least squares regression to model water use as the function of one or more explanatory variables. The choice of variables is based on past correlation with water use. Forecasts of water use are calculated based on projected future values of the explanatory variables combined according to the regression model. This method can be applied to overall water use or to individual end-user sectors. Geographic variations in explanatory variables can be accounted for by performing separate forecasts for each subarea of the water service area.

Regression methods can be separated into requirements models and demand models. Requirements models do not include the price of water as an explanatory variable, with the implicit assumption that water use is a basic requirement unaffected by changes in economic conditions. The

time extrapolation and water use coefficient methods discussed previously are also requirements models.

Demand, or econometric models, include the cost of water to the user, usually accompanied by a measure of personal income. Although the price of urban water currently explains relatively little of the variance in water use, it could become more important if water prices increase significantly. Further, price is usually the only variable that can be controlled by the water supplier and is increasingly used to manage demand when water is in short supply. However, under California law, water agencies cannot make excessive revenues, which limits the prices that can be charged. Continually expanding population combined with new environmental regulations are increasing the probability of water shortages in California. Therefore, understanding the interactions between price and water use will become essential for forecasting urban water consumption.

Component Water Use Forecasts

The determinants of water use vary according to water use sector. Chapter 2 discusses how the Department classifies various types of water use. Proper classification is important because variables that best explain water use in one sector may be less effective or inappropriate for explaining use in other sectors. Further, models specified for a particular geographic area may not hold in areas of differing climate and socioeconomic conditions.

To address this problem, water resource planners are developing component methods of forecasting water use. In this design, overall water use is separated into components according to geography, water use category, or season of year. The nature and number of components is determined according to the purpose of the forecast and the availability of data. Water use is then forecasted separately for each of the components based on the explanatory variables best related to each component. For example, residential water use is strongly correlated with housing type, lot size, and climate, whereas commercial water use is better related to the number of commercial employees. Spatial variation in water use can be accounted for by defining geographic components according to socioeconomic and climatic variables. Seasonality of use (discussed in Chapter 3) can be accounted for by conducting separate forecasts for summer and winter. The forecast of overall water use is obtained by summing the individual component forecasts.

The Water Savings Simulation Program

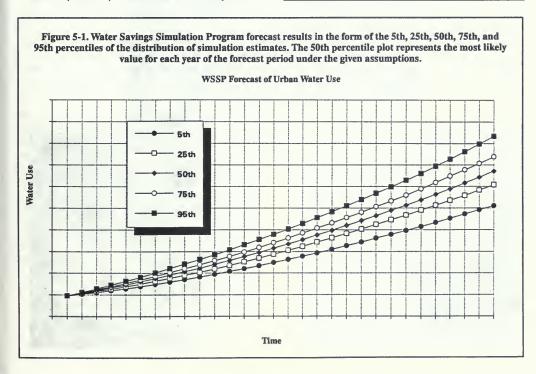
The Water Savings Simulation Program is a component forecasting system designed to account for the impacts of demand management techniques such as the best management practices. WSSP was developed by the Department of Economics at University of California, Los Angeles, under contract to the Department of Water Resources. A preliminary version of the program was released in April 1993.

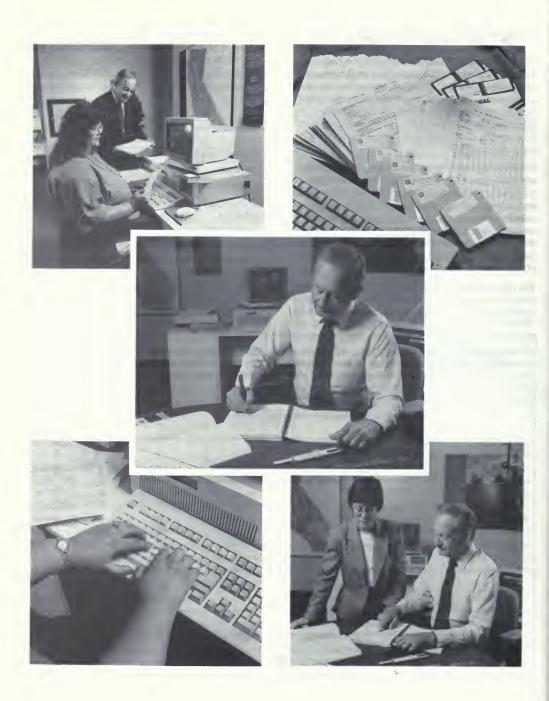
The WSSP system uses simulation techniques to produce multiple estimates of water consumption for each year of the forecast period. Each estimate is based on randomly selected values of each input variable. The resulting forecasts are presented as a series of point estimates with confidence intervals to indicate the actual range of probable forecast values. The confidence intervals widen through time (Figure 5-1) to convey the increasing level of uncertainty as forecasts are carried into the future.

The Department is conducting a pilot study involving 10 water service areas, one in each hydrologic region of California (Table 5-2). The results of the study will be

used to assess the accuracy of the forecasts and to define potential enhancements to the program. The final version of WSSP will be used to forecast urban applied water demand for each hydrologic region of California. More detail on the WSSP and its application are discussed in Appendix G.

Table 5-2. Water Service Areas of WSSP Pilot Study by Hydrologic Region Hydrologic Region Water Service Area North Coast Eureka, City of San Francisco Bay East Bay Municipal Utility District Central Coast Santa Barbara, City of South Coast San Diego County Sacramento River Sacramento, City of San Joaquin River Stockton, City of Tulare Lake Fresno, City of North Lahontan Susanville, City of South Lahontan Victorville, City of Colorado River El Centro, City of





Chapter 6.

Data Collection and Analysis

Sources of Data

There is no requirement in California for water purveyors to report water production and related delivery data to a central agency. Therefore, gathering such information to make estimates of water usage is an involved process drawing on various sources. Many agencies, including local suppliers and statewide and regional planners, are interested in water use data. In preparing bulletins and reports, the Department collects and verifies numerous individual data sets from the local water purveyors.

In a 1993 report, Drinking Water Into the 21st Century, the Department of Health Services reports that drinking water is supplied to California residents through a myriad of governmental agencies, cities, districts, private utilities, mutual water companies, private businesses, and individually-owned wells. DHS estimates that there are over 10,000 water suppliers ranging in size from 5 to over 700,000 service connections, subject to some level of drinking water standards enforcement, serving about 29 million consumers. In addition, over 300,000 residents obtain their water from private individual wells. Systems with fewer than five service connections are not subject to enforcement of standards.

Appendix A of Bulletin 166-4 includes an 11-year history of applied water data from 298 retail urban water suppliers. Applied water demand is not adjusted for system losses and other depletions discussed elsewhere in the bulletin. Most of this information is submitted voluntarily to the Department annually on forms provided through DHS and State Controller's office surveys (Figure 6-1). The information includes the amount of water delivered into the system (produced water), deliveries to the users, the number of active accounts, the extent of customer metering, deliveries for various uses (residential, commercial, industrial, and governmental), the area served,

and other factors. Some suppliers did not submit complete information.

Both publicly-owned and privately-owned systems provide water to urban retail customers in California. Cities, water districts, irrigation districts, and other special districts and political subdivisions of the State are publicly owned. Investor-owned water companies (regulated by the California Public Utilities Commission), mutual water associations, and other non-public suppliers are privately-owned.

Data Collection and Geographic Uniformity of Data Coverage

Because of the great number of water purveyors throughout the State, it is virtually impossible to locate and gather data from each and every water system. Although record keeping has greatly improved among the water agencies over the past decade, water use records are still not universally available. True statistical sampling requires that each entity selected must contribute data and that no part of the data sample be withheld. In practice, that level of response is not possible. Instead, all data are gathered and reported as available to maximize coverage of the population served.

Where possible, the larger agencies areas were selected to obtain a higher coverage of the State's population, and generally to secure more complete records. However, with the widespread use of computers today, even the smaller and more remote agencies have the capability of maintaining quality records. Table 6-1 summarizes 1980 and 1990 population distribution by hydrologic region and the percentages of population reported by the data in Appendix A. Table A-1 compares 1980 and 1990 population by county and the percentages reported by the data in Appendix A.

SYSTEM NAME:							<	CAL TAID A D VIAD.	VEAD.		7	1003
	SE	SERVING CITY (IES) OF:	(IES) OF				5	COUNTY OF:	,			
			Z	INSIDE CITY LIMITS	LIMITS				100	OUTSIDE CITY LIMITS	Y LIMITS	
ACTIVE ACCOUNTS:		FLAT	FLAT-RATE		MET	METERED		=	FLAT-RATE		×	METERED
RESIDENTIAL COMMERCIAL												
INDUSTRIAL (MFG.)												
GOVERNMENTAL							1					
IRRIGATION: Agricultural Crops							1					
Parks, Golf Courses, etc	TOTAL			+		ľ	\dagger			1		
2. RESIDENTIAL: PLEASE INDICATE: (a) Number of single family dwellings you serve	illy dwellings	1										
3. ESTIMATED RESIDENT (PERMANENT) POPULATION SERVED: INSIDE CITY LIMITS	Welling Units)	ERVED:									1 1	
4. MONTHLY WATER PRODUCTION: (Million gallons) — Because of normal system losses "Water Production" will be greater than "Total	gallons) —	Because o	normal	system lo	W" sess	ater Pro	duction"	will be	greater than "Total Delivered".	than "To	al Delive	red".
	JAN FEB	3 MAR	APR	MAY	NDS	JUL ,	AUG	SEP	OCT	NOV	DEC	YEAR TOTAL
WATER INTO SYSTEM												
ACQUIRED FOR SALE (Please see instructions)	uctions)					\dashv						
	SELF-PHODUCED WELLS	E				and/or 1	PURCHASED	CHASED			% %	
6. METERED DELIVERIES: (MIIIIon gallons) RESIDENTIAL	SURFACE	ACE			%		S	SURFACE			%	
Apartments (Multiples)												
INDUSTRIAL (MFG.)												
GOVERNMENTAL												
IRRIGATION: Agricultural Crops	-						1				1	
Parks, Golf Courses, etc	+				+	+	1		1	\dagger	†	
TOTAL DELIVERED 7. DELIVERY(IES) TO OTHER AGENCY(IES):	Yes		NAM of	No NAME(S) OF AGENCY(IES) [and emounts (MG) use separate sheet if necessary]	AGENCY	IES) [an	d emoun	nts (MG)	nse sebs	rate she	et if nec	essary]
8. UNUSUAL EVENT, (i.e., annexation, major price change, new industry, etc.):	se change, ne	w industry,	etc.):									
NAME TITLE AND BUONE NIMBED OF OFFICIAL BECODERING FOR DATE	DOIN DECD	i i i i i i i	140.00									
DWR 4154-B (Rev. 10/93) Side One	PI FAS	DI EASE DEAD INSTRUCTIONS ON DELICEDE SIDE	TO TO	1							Ì	

Figure 6-1 (continued). Urban Water Utility Statistics (DWR reporting form)

INSTRUCTIONS FOR COMPLETING URBAN WATER UTILITY STATISTICS FORM

1. CLASSIFICATION AND NUMBER OF ACCOUNTS

Show the number of FLAT-RATE and metered accounts in each classification of use. Separate by location INSIDE, or OUTSIDE of the corporate city limits. Do not include inactive accounts, hydrants or fire protection connections. The number of accounts should be the average for the calendar year. IRRIGATION deliveries should be divided into AGRICULTURAL CROP and LANDSCAPE (parks, golf courses, etc.) subcategories. Do not include accounts of other agencies that you may serve.

2. RESIDENTIAL

Show the number of single-family dwellings and the number of all other dwelling <u>UNITS</u> (not structures) that you serve. (This housing data may be available at the Planning Commission Office, or at other agencies of the city or county governments, and in the Census of Housing).

3. ESTIMATED RESIDENT POPULATION SERVED — (Your Service Area Only)

Base permanent population estimates on most recent (1990) Census count; or special census that may have been taken recently. Unless the city limits are the same as the water agency service area, Individual census tracts constituting the water service area can be totaled. A persons-per-connection factor computed from the latest census year can be used for estimating population served. DO NOT INCLUDE tourist, "weekend" population, or population of other cities to which water is sold through another agency.

4. MONTHLY WATER PRODUCTION — (Your Service Area Only)

Indicate measured quantities of water produced and introduced into the system for each month of the CALENDAR YEAR.

Do not include amounts of water sold to other water utilities. Also show the amount of RECLAIMED water acquired for resale. Do not include RECLAIMED water that has been discharged, percolated or evaporated.

5. SOURCES OF WATER

Indicate the percentage of your water supply that is SELF-PRODUCED and that which is PURCHASED. Then divide each category to show the percentage of water from WELLS and/or from SURFACE SUPPLIES.

6. METERED DELIVERIES - (Your Service Area Only)

Show monthly delivered amounts for each class of use whether revenue producing or not. Under the category METERED DELIVERIES-RESIDENTIAL, show the amount of water delivered to apartments separately from the amount of water delivered to single-family dwellings. The category of COMMERCIAL may include water for construction, line flushing or other uses in addition to business uses. The category of INDUSTRIAL for this report, means industries that manufacture a product (S.I.C. Major Groups 20 - 39). GOVERNMENTAL should include any water delivered to a public facility (that is schools, public buildings, military installations, etc.). IRRIGATION deliveries should be divided into AGRICULTURAL CROP and LANDSCAPE subcategories. Include RECLAIMED water delivered for these purposes.

7. DELIVERIES TO OTHER AGENCIES

Indicate whether, or not, you deliver water to another water agency. If affirmative, provide that agency's name and amount in million gallons. Do not include this amount in 4, 5 and 6 (other side).

8. UNUSUAL EVENT

Occasionally, an abrupt change occurs in data. Often the change is easily explained by some major change in the system, system operation or service area. If this may have occurred during the past year, please identify the event.

NOTE: If you have already completed a similar form issued by the Office of the State Controller, please disregard this form.

IMPORTANT: Please return this colored original form.

DWR 4154-B (Rev.10/93) Side Two

CONVERSION TABLE

1 Million Gallons = 3.0689 acre feet

1 Acre Foot = 325,851 gallons

100 Cubic Feet = 748.1 gallons

Table 6-1. Population Distribution and Percentage of Population of Reported Data, by Hydrologic Region 1980 and 1990

			1900 and 1990			
Hydrologic Region	Total Population	on (thousands)	Percent of Total	State Population	Percent of Popu	lation Reported
nyarologic Kegion	1980	1990	1980	1990	1980	1990
North Coast	467.5	571.7	1.9	1.9	47	51
San Francisco	4,787.1	5,483.7	20.2	18.3	89	93
Central Coast	1,017.3	1,292.9	4.2	4.3	57	65
South Coast	12,965.9	16,292.8	54.6	54.4	59	79
Sacramento River	1,660.9	2,209.0	7.0	7.4	49	64
San Joaquin River	1,010.5	1,430.0	4.3	4.8	42	41
Tulare Lake	1,178.0	1,553.8	5.0	5.2	52	61
North Lahontan	64.3	78.1	0.3	0.3	18	22
South Lahontan	313.3	599.8	1.3	2.0	21	21
Colorado River	317.2	464.2	1.3	1.5	34	62
Total	23,782.0	29,976.0	100.0	100.0	63	74

Population Served

The boundaries of water purveyor service areas seldom correspond to those of overlying census tracts, census designated places, city limits, or other boundaries for which populations can be determined. The calculation of per capita water use estimates depends on reliable estimates of the *permanent* resident population of a water service area. Transient populations (e.g., recreational and tourists) are counted in the population of their permanent residence, even though their water use affects the values of the areas they visit.

There are various methods to estimate service area populations. Wherever possible, official census or annual Department of Finance update estimates are applied. For a given water service area, an estimate of persons per connection can be multiplied by the known number of service connections. However, the number of persons per connection varies within and between communities due to housing configurations (single-family or multi-family, ranchettes, etc.) and the mix of land uses (residential, commercial, industrial, etc.). In some cases, the estimated persons per connection of an overlying agency (county or water district) can be assumed as a reasonable estimate for an underlying service area or a similar community.

Appendix A identifies the city served by each retail water supplier. For this bulletin, city is used in a broad sense, from the geographic extent of a concentration of residences and work places, to a metropolitan area, central city, and suburbs. A city in this sense is a named community and may be incorporated or not. An urban water supplier may serve all or part of city, plus customers beyond its central boundaries, and/or all or parts of more than one city.

In Appendix A tables, 1980 and 1990 city census population refers to the official population of the closest overlying census place. This is for comparison with the water supplier's estimated service area population. In some cases, census information is used with persons per connection information to estimate service area population.

Verifying Data

The Department receives most data from agencies on the form shown in Figure 6-1. Some agencies are unable to complete the form as requested for various reasons. In some cases, their accounting system does not aggregate the requested data, or totalizing meters have not been installed on intake lines to the system. Many systems in the Central Valley and some remote areas do not meter some or all residential customers. Some agencies are unable to identify total services or to accurately count the individuals within their service area.

A large part of the data analysis process involves checking data for accuracy. Each water agency has a unique water system, accounting method, and data collection technique. Therefore, each response must be examined to ensure that the correct units of measure were used and that questions on the response form were interpreted properly.

Extraordinary impacts on per capita water use may need special attention. For example, the tourist, non-resident population of Palm Springs and vicinity raises water use to more than 800 gallons per capita daily. High unit rates of water use occur in the Lake Tahoe basin because of high year-round tourism. Exceptionally high industrial water use may have a similar effect. The lumber and paper manufacturing industries in the North Coast Region require considerably more water than other urban users. If this amount of water were assigned to the resident population, the rate would be several thousand gpcd. The amount of water delivered to very high-water-using industries is treated as a separate demand and not included with the normal urban requirement.

Uses of the Data

As reported by the local water purveyors and verified to the extent possible by the Department, Appendix A constitutes a unique set of water information. Analyses of these data are presented in the Bulletin 166 and Bulletin 160 series.

The Department uses per capita water use to identify trends in the data in Appendix A. On a local basis, per capita use is affected by many factors, as discussed above and in Chapter 3, that must be considered when comparing the gpcd of various localities. Summarizing per capita use by hydrologic regions and statewide remains a valid method of estimating water use.

The data in Appendix A have been used in this report as follows:

- Estimates of unaccounted water were prepared from the data by comparing the difference between water produced and metered deliveries. Unmetered water deliveries may complicate such calculations.
- The monthly water production data allowed for analysis of seasonal patterns of water use.

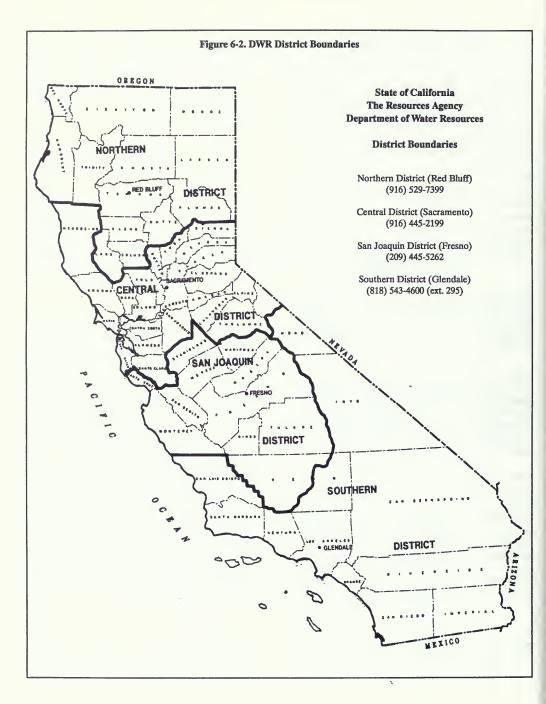
- The average of the 1980-87 data was used to establish the 1990 normalized use that was not affected by rationing or conservation methods used only during the drought.
- The normalized per capita water uses are multiplied by population and adjusted for conservation to make projections.
- Where data were available on the water use by sector, they were used to calculate percentage water by sector for each hydrologic region.
- 6. The lowest water use in the winter months over the 1980-87 period was considered an approximation of the interior baseline use.

While the data in Appendix A have been useful in the Department's statewide and regional water use estimates and forecasts, it needs strengthening to better estimate the factors affecting current use and for future projections

Urban water use data are also important for studies to:

- 1. Identify developing water supply shortages
- 2. Evaluate the availability of water for local use, export to other areas of need, or both
- Determine the ability of users to pay for additional water supplies
- 4. Analyze ground water extraction rates
- 5. Quantify water rights
- Determine the quantity and nature of water use (including the timing of applications and the routing of water) to optimize State and federal reservoir operations
- Assist evaluation of the impact of proposed water management actions and facilities on specific areas.

Questions concerning the data may be directed to the Water Use Unit in the appropriate Department of Water Resources District Office (Figure 6-2).



Appendix A Ten-Year Urban Water Use Data

Appendix A data tables are based on information provided directly by the water suppliers. Each supplier was given an opportunity to verify the input, but not all responded. Questions concerning the data may be directed to the Water Use Unit in the appropriate Department of Water Resources District Office (Figure 6-2).

Appendix A groups the reporting water systems by Hydrologic Regions (see Figure A-1). Within Regions, systems are arranged numerically in Detailed Analysis Unit order (see Figure A-2). See the alphabetical listing (Table A-2) to find systems by name.



Appendix A. Ten-Year Urban Water Use Data

Figure A-1. Hydrologic Regions of California	A-2
Figure A-2. Planning Subareas Within Hydrologic Regions	A-3
Table A-1. Population Growth by County, 1980 and 1990	A-4
Table A-2. Master Alphabetical Listing of Reporting Agencies, Indicating Hydrologic Region	A-5
Figure A-3. North Coast Region	A-13
Table A-3. North Coast Region Water Production and Per Capita Water Use	A-14
Figure A-4. San Francisco Bay Region	A-37
Table A-4. San Francisco Water Production and Per Capita Water Use	A-38
Figure A-5. Central Coast Region	A-81
Table A-5. Central Coast Region Water Production and Per Capita Water Use	
Figure A-6. South Coast Region	
Table A-6. South Coast Region Water Production and Per Capita Water Use	
Figure A-7. Sacramento River Reglon	
Table A-7. Sacramento River Region Water Production and Per Capita Water Use	
Figure A-8. San Joaquin River Region	
Table A-8. San Joaquin River Region Water Production and Per Capita Water Use	
Figure A-9. Tulare Lake Region	A-281
Table A-9. Tulare Lake Region Water Production and Per Capita Water Use	A-282
Figure A-10. North Lahontan Region	A-301
Table A-10. North Lahontan Region Water Production and Per Capita Water Use	A-302
Figure A-11. South Lahontan Region	A-307
Table A-11. South Lahontan Region Water Production and Per Capita Water Use	
Figure A-12. Colorado River Region	
Table A-12. Colorado River Region Water Production and Per Capita Water Use	A-316

Figure A-1. Major Hydrologic Regions of California

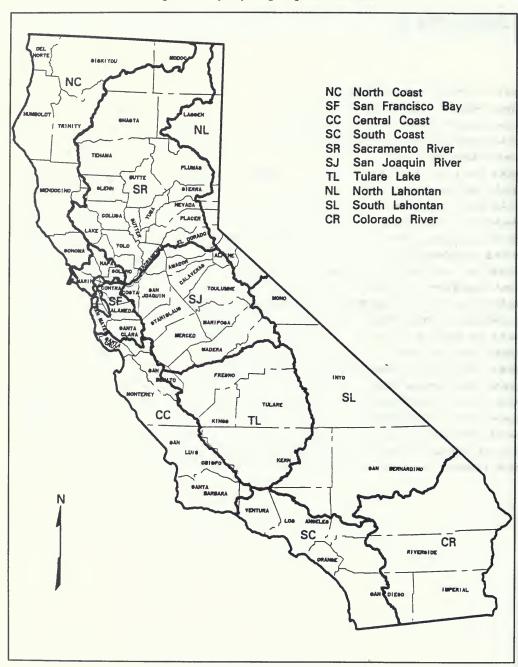


Figure A-2. Planning Subareas and Hydrologic Regions



County	Total Population		Percent of Population Reported		County	Total Population		Percent of Population Reported	
	1980	1990	1980	1990		1980	1990	1980	1990
Alameda	1,109,500	1,282,400	97	90	Placer	118,400	175,600	21	387
Alpine	1,100	1,100	_	0	Plumas	17,400	19,900	11	12
Amador	19,500	30,600	-	0	Riverside	669,800	1,195,400	51	33
Butte	144,900	183,900	54	77	Sacramento	787,900	1,051,400	62	83
Calaveras	20,900	32,500		7	San Benito	25,200	37,000	46	52
Colusa	12,900	16,400	90	59	San Bernardino	902,200	1,440,700	37	58
Contra Costa	658,500	810,300	90	82	San Diego	1,873,300	2,520,500	69	95
Del Norte	18,300	24,500	46	54	San Francisco	680,500	723,900	100	100
El Dorado	86,500	128,200	-	0	San Joaquin	350,200	483,800	42	27
Fresno	517,400	673,900	61	69	San Luis Obispo	156,600	219,500	46	49
Glenn	21,500	25,000	33	50	San Mateo	588,100	652,100	79	58
Humboldt	108,900	119,800	60	71	Santa Barbara	300,000	371,400	75	77
Imperial	92,500	110,400	19	62	Santa Clara	1,300,200	1,502,200	88	94
Inyo	17,900	18,400	19	0	Santa Cruz	189,100	230,800	50	44
Kern	406,100	549,800	50	55	Shasta	116,600	148,800	45	62
Kings	74,200	102,500	38	31	Sierra	3,100	3,400	-	35
Lake	36,800	51,100	10	42	Siskiyou	40,000	43,800	26	29
Lassen	21,800	27,800	30	29	Solano	237,200	345,700	50	92
Los Angeles	7,500,300	8,897,500	62	79	Sonoma	301,400	392,000	56	59
Madera	63,900	89,800	34	33	Stanislaus	267,700	- 376,100	34	72
Marin	222,700	231,200	98	96	Sutter	52,600	65,100		42
Mariposa	11,200	14,500	_	8	Tehama	39,100	50,100	37	37
Mendocino	67,000	81,000	18	26	Trinity	12,000	13,100	_	42
Merced	135,500	180,600	42	45	Tulare	247,400	314,600	40	47
Modoc	8,700	9,700	36	34	Tuolumne	34,200	49,000	10	14
Mono	8,700	10,200	_	47	Ventura	532,200	671,600	47	67
Monterey	292,100	358,800	62	59	Yolo	113,900	142,500	60	88
Napa	99,300	111,700	66	70	Yuba	49,800	58,700	20	21
Nevada	52,500	79,600	_	51					
Orange	1,944,800	2,424,100	51	85	Statewide Total	23,782,000	29,976,000	63	74

Source:

¹ Population—Department of Finance, Report I 80-90, Intercensal Estimates of the Population of California: State and Counties 1980-1990, June 1991.

² Land area—Sacramento Area Council of Governments, 1990 Census Geographic Areas Reference List, Part A, October 1991.

	Table A-2. Master Alphabetical Listing of Repor	ting Agencies, Indicating I	lydrologic Region	
Page	Name	County	Region	DAU
	Alameda County Water District	Alameda	SF	47
	Alhambra	Los Angeles	SC	92
	Alturas	Modoc	SR	130
	American Canyon County Water District	Napa	SF	40
	Anaheim	Orange	SC	96
	Anderson	Shasta	SR	141
	Angels Camp	Calaveras	SJ	194
	Antioch	Contra Costa	SJ	46
	Arbuckle Public Utility District	Colusa	SR	163
	Arcade Water District	Sacramento	SR	173
	Arcadia	Los Angeles	SC	92
	Arcata	Humboldt	NC	32
	Arroyo Grande	San Luis Obispo	CC	68
	Atascadero Mutual Water Company	San Luis Obispo	CC	65
	Banning	Riverside	CR	348
	Belmont County Water District	San Mateo	SF	43
	Benicia	Solano	SF	41
	Beverly Hills	Los Angeles	SC	89
	Big Bear City Community Services District	San Bernardino	SC	100
	Biggs	Butte	SR	168
	Blue Lake	Humboldt	NC	30
	Brawley	Imperial	CR	353
	Brea	Orange	SC	96
	Brentwood	Contra Costa	SJ	185
	Bridgeport Public Utility District	Mono	NL	270
	Buckingham Park County Water District	Lake	SR	174
	Buena Park	Orange	SC	96
	Burney Water District	Shasta	SR	134
	Calexico	Imperial	CR	353
	California American Water Co., Baldwin Hills	Los Angeles	SC	92
	California American Water Co., Duarte	Los Angeles	SC	92
	California American Water Co., Monterey	Monterey	CC	52
	California American Water Co., San Marino	Los Angeles	SC	92
	California Water Service Co., Bakersfield	Kern	TL	254
	California Water Service Co., Bear Gulch District	San Mateo	SF	43
	California Water Service Co., Chico/Hamilton City	Butte	SR	142
	California Water Service Co., Dixon	Solano	SR	191
	California Water Service Co., East Los Angeles	Los Angeles	SC	92
	California Water Service Co., Hermosa/Redondo	Los Angeles	SC	89
	California Water Service Co., Livermore	Alameda	SF	45
	California Water Service Co., Los Altos	Santa Clara	SF	44
	California Water Service Co., Marysville	Yuba	SR	171
	California Water Service Co., Palos Verdes	Los Angeles	SC	89

age	Name	County	Region	DAU
	California Water Service Co., Salinas	Monterey	CC	48
	California Water Service Co., San Carlos	San Mateo	SF	43
	California Water Service Co., San Mateo	San Mateo	SF	43
	California Water Service Co., Selma	Fresno	TL	236
	California Water Service Co., So. San Francisco	San Mateo	SF	43
	California Water Service Co., Stockton	San Joaquin	SJ	182
	California Water Service Co., Visalia	Tulare	TL	242
	California Water Service Co., Willows	Glenn	SR	163
	Calistoga	Napa	SF	40
	Camarillo	Ventura	SC	81
	Camrosa County Water District	Ventura	SC	81
	Capistrano Valley Water District	Orange	SC	114
	Carmichael Water District	Sacramento	SR	173
	Carpinteria County Water District	Santa Barbara	SC	75
	Casitas Municipal Water District	Ventura	SC	81
	Centerville Community Services District	Shasta	SR	141
	Ceres	Stanislaus	SJ	208
	Cerritos	Los Angeles	SC	89
	Chino	San Bernardino	SC	100
	Citizen's Utilities Company, Isleton	Sacramento	SR	186
	Citizen's Utilities Company, Sacramento	Sacramento	SR	172,1
	Clearlake Oaks County Water District	Lake	SR	174
	Clovis	Fresno	` TL	233
	Coachella	Riverside	CR	348
	Coalinga	Fresno	TL	245
	Coastside County Water District	San Mateo	SF	42
	Cobb Mutual Water Company	Lake	SR	174
	Colton	San Bernardino	SC	100
	Colusa	Colusa	SR	164
	Compton	Los Angeles	SC	89
	Contra Costa Water District	Contra Costa	SF	46
	Corning	Tehama	SR	142
	Covina	Los Angeles	SC	92
	Crescent City	Del Norte	NC	14
	Crescenta Valley County Water District	Los Angeles	SC	90
	Daly City	San Mateo	SF	43
	Davis	Yolo	SR	162
	Del Paso Manor County Water District	Sacramento	SR	172
	Delano	Kern	TL	256
	Desert Water Agency	Riverside	CR	348
	Dominguez Water Corporation	Los Angeles	SC	89
	Dos Palos	Merced	SJ	216
	Downey	Los Angeles	SC	89

age	Name	County	Region	DAU
	Dublin San Ramon Community Services District	Alameda	SF	45
	East Bay Municipal Utilities District	Alameda/Contra Costa	SF	46,47
	East Niles Community Services District	Kern	TL	254
	El Centro	Imperial	CR	353
	El Segundo	Los Angeles	SC	89
	El Toro Water District	Orange	SC	114
	Escalon	San Joaquin	SJ	205
	Escondido/Rincon Del Diablo MWD	San Diego	SC	120
	Eureka	Humboldt	NC	32
	Fair Oaks Water District	Sacramento	SR	172
	Fairfield .	Solano	SF	41
	Fieldbrook Community Services District	Humboldt	NC	30
	Fillmore	Ventura	SC	81
	Finley County Service Area #6	Lake	SR	174
	Fort Bragg	Mendocino	NC	17
	Fortuna	Humboldt	NC	20
	Fresno	Fresno	TL	233
	Fullerton	Orange	SC	96
	Garden Grove	Orange	SC	96
	Glendale	Los Angeles	SC	90
	Glendora	Los Angeles	SC	92
	Gilroy	Santa Clara	CC	62
	Goleta Water District	Santa Barbara	CC	75
	Gridley	Butte	SR	168
	Groveland Community Services District	Tuolumne	SJ	195
	Gustine	Merced	SJ	216
	Hanford	Kings	TL	238
	Happy Camp Community Services District	Siskiyou	NC	10
	Hawthorne	Los Angeles	SC	89
	Hayward	Alameda	SF	47
	Healdsburg	Sonoma	NC	35
	Helix Water District	San Diego	SC	120
	Hemet	Riverside	SC	104
	Hesperia Water District	San Bernardino	SL	309
	Hillsborough	San Mateo	SF	43
	Hollister/Sunnyslope Water District	San Benito	CC	62
	Humboldt Community Services District	Humboldt	NC	32
	Huntington Beach	Orange	SC	96
	Huron	Fresno	TL	244
	Hydesville County Water District	Humboldt	NC	21
	Indian Wells Water District	Kern	SL	303
	Indio	Riverside	CR	348

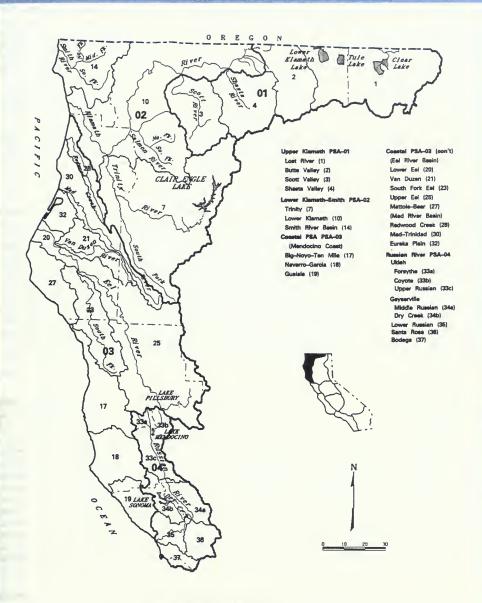
age	Name	County	Region	DAU
	Inglewood	Los Angeles	SC	89
	Kelseyville County Waterworks District #3	Lake	SR	174
	Konocti County Water District	Lake	SR	174
	La Habra	Orange	SC	96
	La Verne	Los Angeles	SC	92
	Laguna Beach County Water District	Orange	SC	114
	Lake Arrowhead Community Services District	San Bernardino	SL	309
	Lakeport	Lake	SR	174
	Lakeside Water District	San Diego	SC	120
	Lakewood	Los Angeles	SC	89
	Las Virgenes MWD	Los Angeles	SC	90
	Lincoln Avenue Water Company	Los Angeles	SC	92
	Lindsay	Tulare	TL	242
	Lodi	San Joaquin	SJ	182
	Loma Linda	San Bernardino	SC	100
	Lompoc	Santa Barbara	CC	74
	Long Beach	Los Angeles	SC	89
	Los Alisos Water District	Orange	SC	114
	Los Angeles Department of Water and Power	Los Angeles	SC	89
	Los Banos	Merced	SJ	216
	Loyalton	Sierra	SR	154
	Madera	Madera	SJ	213
	Mammoth County Water District	Mono	SL	276
	Manhattan Beach	Los Angeles	SC	89
	Manteca	San Joaquin	SJ	205
	Marin Municipal Water District	Marin	SF	39b
	Martinez	Contra Costa	SF	47
	Maywood Mutual Water Company #1	Los Angeles	SC	89
	McKinleyville Community Services District	Humboldt	NC	30
	Merced	Merced	SJ	210
	Mesa Consolidated Water District	Orange	SC	96
	Millbrae	San Mateo	SF	43
	Milpitas	Santa Clara	SF	44
	Modesto/Del Este Water Company	Stanislaus	SJ	206
	Mojave Public Utility District	Kern	SL	305
	Monrovia	Los Angeles	SC	92
	Montague	Siskiyou	NC	4
	Montecito Water District	Santa Barbara	CC	75
	Monterey Park	Los Angeles	SC	92
	Morgan Hill	Santa Clara	CC	62
	Могто Вау	San Luis Obispo	CC	67
	Moulton Niguel Water District	Orange	SC	114

	able A-2 (continued). Master Alphabetical Listin			
Page	Name	County	Region	DAU
	Mount Konocti Mutual Water Company	Lake	SR	174
	Mount Shasta	Siskiyou	SR	136
	Mountain View	Santa Clara	SF	44
	Napa	Napa	SF	40
	Needles	San Bernardino	CR	340
	Nevada Irrigation District, North Auburn	Placer	SR	161
	Newman	Stanislaus	SJ	215
	Norco	Riverside	SC	98
	North Coast County Water District	San Mateo	SF	42
	North Marin County Water District	Marin	SF	39b
	North Tahoe Public Utility District	Placer	NL	268
	Northridge Water District	Sacramento	SR	173
	Oakdale	Stanislaus	SJ	206
	Oceanside	San Diego	SC	120
	Oildale Mutual Water Company	Kern	TL	254
	Ontario	San Bernardino	SC	100
	Orange	Orange	SC	96
	Orchard Dale Water District	Los Angeles	SC	89
	Orland	Glenn	SR	142
	Oroville (various suppliers)	Butte	SR	159,168,170
	Oxnard	Ventura	SC	81
	Palmdale Water District	Los Angeles	SL	307
	Palo Alto	Santa Clara	SF	44
	Paradise Irrigation District	Butte	SR	147
	Paramount	Los Angeles	SC	89
	Pasadena	Los Angeles	SC	92
	Paso Robles	San Luis Obispo	CC	65
	Petaluma	Sonoma	SF	39a
	Pico Rivera	Los Angeles	SC	89
	Pittsburg	Contra Costa	SF	46
	Placerville	El Dorado	SR	158
	Pleasanton	Alameda	SF	45
	Pomona	Los Angeles	SC	92
	Port Hueneme	Ventura	SC	81
	Porterville	Tulare	TL	243
	Portola	Plumas	SR	154
	Ramona Municipal Water District	San Diego	SC	120
	Rancho Cucamonga County Water District	San Bernardino	SC	100
	Red Bluff	Tehama	SR	142
	Redding	Shasta	SR	141
	Redlands	San Bernardino	SC	100
	Redwood City	San Mateo	SF	43
	Reedley	Fresno	TL	239

Page	Name	County	Region	DAU
	Rialto	San Bernardino	SC	100
	Rio Dell	Humboldt	NC	20
	Rio Vista	Solano	SR	186
	Riverbank	Stanislaus	SJ	206
	Riverside	Riverside	SC	98
	Riviera Heights Mutual Water Company	Lake	SR	174
	Rohnert Park	Sonoma	NC	36
	Roseville	Placer	SR	172
	Rowland Water District	Los Angeles	SC	92
	Rubio Canon Land and Water Association	Los Angeles	SC	92
	Sacramento	Sacramento	SR	172
	San Bruno	San Mateo	SF	43
	San Clemente	Orange	SC	114
	San Diego	San Diego	SC	120
	San Dieguito Water District	San Diego	SC	120
	San Fernando	Los Angeles	SC	90
	San Francisco	San Francisco	SF	43
	San Gabriel County Water District	Los Angeles	SC	92
	San Gabriel Valley Water Company, Fontana	San Bernardino	SC	100
	San Gabriel Valley Water Company, Montebello	Los Angeles	SC	89
	San Jose	Santa Clara	SF	44
	San Jose Water Company	Santa Clara	SF	44
	San Juan Suburban Water District, Orangevale/Roseville	Sacramento/Placer	SR	172
	San Lorenzo Valley Water District	Santa Cruz	CC	60
	San Luis Obispo	San Luis Obispo	CC	67
	Sanger	Fresno	TL	236
	Santa Ana	Orange	SC	96
	Santa Barbara	Santa Barbara	cc	75
	Santa Clara	Santa Clara	SF	44
	Santa Cruz	Santa Cruz	CC	60
	Santa Fe Irrigation District	San Diego	SC	120
	Santa Fe Springs	Los Angeles	SC	89
	Santa Maria	Santa Barbara	CC	71
	Santa Monica	Los Angeles	SC	89
	Santa Paula Water Works	Ventura	SC	81
	Santa Rosa	Sonoma	NC	36
	Seal Beach	Orange	SC	96
	Sebastopol	Sonoma	NC	36
	Shafter	Kern	TL	256
	Shasta Dam Area Public Utilities District	Shasta	SR	143
	Solvang	Santa Barbara	CC	74
	Sonoma	Sonoma	SF	39a

	able A-2 (continued). Master Alphabetical Listin	County	Region	DAU
age	Name	•		
	Soquel Creek County Water District	Santa Cruz	CC	60
	South Coast County Water District	Orange	SC	114
	South Gate	Los Angeles	SC	89
	South Pasadena	Los Angeles	SC	92
	South Tahoe Public Utility District	El Dorado	NL	268
	Southern California Water Company	Ventura	SC	81
	Spring Valley County Service Area #12	Lake	SR	174
	Starview County Service Area #18	Lake	SR	174
	Suburban Water Systems	Los Angeles	SC	89
	Sunnyvale	Santa Clara	SF	44
	Susanville	Lassen	NL	264
	Sweetwater Authority, National City	San Diego	SC	120
	Sweetwater Authority, Otay Water District	San Diego	SC	120
	Tahoe City Public Utility District	Placer	NL	268
	Tehachapi	Kern	TL	231
	Thousand Oaks	Ventura	SC	81
	Torrance	Los Angeles	SC	89
	Tracy	San Joaquin	SJ	185
	Trinidad	Humboldt	NC	30
	Trinity County Waterworks District #1	Trinity	NC	7
	Tulare	Tulare	TL	242
	Tuolumne Utilities District	Sonora	SJ	195
	Turlock	Stanislaus	SJ	208
	Tustin	Orange	SC	96
	Twentynine Palms Water District	San Bernardino	CR	327
	Ukiah	Mendocino	SF	33c
	Upland	San Bernardino	SC	100
	Vacaville	Solano	SR	191
	Vallecitos County Water District	San Diego	SC	120
	Vallejo	Solano	SF	40
	Valley of the Moon Water District	Sonoma	SF	39a
	Valley Water Company	Los Angeles	SC	89
	Victor Valley County Water District	San Bernardino	SL	309
	Walnut Valley Water District	Los Angeles	SC	92
	Watsonville	Santa Cruz	CC	59
	Weaverville Community Services District	Trinity	NC	7
	West Covina	Los Angeles	SC	92
	Whittier	Los Angeles	SC	89
	Williams	Colusa	SR	163
	Woodland	Yolo	SR	162
	Yorba Linda Water District	Orange	SC	96
		Siskiyou	NC	4
	Yreka Yuba City	Sutter	SR	168





PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

Table A-3. North Coast Region Water Production and Per Capita Water Use

	SISKIYOU			WATER AC								ORIGIN O	F WATER	(in pe	rcent):	
	MONTAGUE			TYPE OF	AGENCY.		MUNICIP.	AL WATER	DEPART	MENT						
		• • • • • • • • • • • • • • • • • • • •											E WATER		100	
						SYSTEM	1 SERVE	S:				WELLS	AND SPR	INGS	0	
PLANNING	SUBAREA	#l		CLAMATH												
DAU #		• • • • • • • • • • • • • • • • • • • •	4													
					ENTI	RE CITY	PLUS	OUTSIDE.	• • • • • • •	Х		SOURCE 0	F WATER	(in pe	rcent):	
CITY CEN	ISUS POPUL	ATION						ΤΥ								
1980		1,285			OTHE	R		•••••	• • • • • •			PURCHA	SED	• • • • • •	100	
1990		1,415										SELF S	UPPLIED		0	
					SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	d	465		Meter	ed	11		Metere	ed	2		Metere	d	7		
Flat R	ate	0		Flat I	Rate	0		Flat F	Rate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER IN	TO SYSTE	EM (MILI	.10N GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	448	448	8.4	8.4	10.0	12.0	18.0	18.0	26.0	26.0	17.0	13.0	9.0	8.0	173.8	
1981	482	482	8.9	9.8	9.5	11.4	15.3	22.7	25.1	21.8	13.4	4.8	4.3	4.7	151.7	
1982	465	465	4.9	4.4	4.4	5.8	13.1	11.5	14.0	17.0	8.7	4.9	4.4	4.1	97.1	
1983	485	485	4.7	3.3	3.6	4.4	9.8	13.2	16.8	13.5	8.1	4.6	3.2	3.7	88.8	
1984	477	475	4.3	3.7	3.7	4.6	9.4	12.8	15.6	13.6	7.2	4.3	3.6	4.1	86.9	
1985	491	489	4.1	3.3	3.7	6.1	8.9	12.0	16.8	11.3	5.5	4.4	3.5	3.7	83.2	
1986	495	493	3.8	3.1	4.0	5.7	8.6	12.9	15.3	15.8	7.0	4.4	3.5	3.8	88.1	
1987	499	497	3.8	3.4	3.9	7.7	11.7	12.1	11.8	13.9	8.0	6.1	3.5	3.8	89.8	
1988	503	501	3.7	3.2	4.3	5.4	7.0	8.8	15.7	13.8	10.2	6.2	3.5	3.7	85.5	
1989	513	511	4.0	3.5	3.2	4.5	5.9	11.0	16.3	12.7	7.5	4.2	3.5	3.8	79.9	
1990	487	485	3.6	3.3	3.9	6.2	8.4	9.8	15.6	13.4	10.1	5.2	3.6	4.1	87.2	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	ER USE	(gpcd)/3	3			-	WNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.87	1,285	211	225	251	311	452	467	653	653	441	326	233	201	371	0.415
1981	2.87	1,385	207	253	221	274	356	546	584	507	322	113	103	109	300	0.336
1982	2.88	1,338	117	117	107	144	315	285	338	410	216	118	110	98	199	0.223
1983	2.88	1,398	107	83	82	104	227	315	388	310	193	106	77	86	174	0.195
1984	2.89	1,378	101	92	87	112	220	309	365	318	175	101	87	95	173	0.194
1985	2.89	1,420	94	83	83	142	202	281	381	257	129	100	81	84	161	0.180
1986	2.90	1,434	85	76	91	133	194	301	344	355	163	100	82	86	168	0.188
1987	2.90	1,448	86	85	86	177	260	279	262	310	185	136	82	84	170	0.190
1988	2.91	1,463	82	76	95	122	155	201	345	304	232	137	80	81	160	0.179
1989	2.91	1,494	86	84	70	100	128	246	351	274	167	90	77	81	147	0.164
1990	2.92	1,421	81	84	88	145	190	231	353	303	238	119	84	94	168	0.188
		,														
AVERAGE						160	245	315	397	364	224	131	100	100	199	0.223

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually Note: Water production data estimated for 1/80 & 2/80.

					OF MAN		mev.	01TV 4-				0016111				
	SISKIYOU				GENCY							ORIGIN (OF WATER	(in pe	ercent):	
	YREKA			TYPE OF	AGENCY.		UNICIP	AL WATE	R DEPAR	IMENT					400	
													E WATER		100	
						SYSTE	SERVE	S:				MELLS	AND SPE	INGS	0	
		#		LANATH												
DAU #	•••••	•••••	4					•••••								
								OUTSIDE		X		SOURCE (OF WATER	(in pa	ercent):	
	SUS POPUL							ΤΥ								
	•••••	-			OTHE	R	•••••	•••••	• • • • • • •				ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	6,948										SELF S	SUPPLIED)	100	
					SERVICE	CONNECT										
RESIDENT	IAL:		4	COMMERC	IAL:			INDUSTR	IAL:			GOVERNME				
	d	•			ed	159			ed	11			d	43		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat I	Rate	0		
YEAR OF		SERVICE			1	OTAL W	TER IN	TO SYST	EM (MILI	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,125	2,113	21.0	25.0	35.0	42.0	61.0	67.0	89.0	100.0	72.0	55.0	33.0	23.0	623.0	
1981	2,263	2,250	30.0	34.0	38.0	45.0	65.0	86.0	108.0	114.0	83.0	40.0	33.0	28.0	704.0	
1982	2,300	2,285	36.0	29.0	39.0	42.0	77.0	74.0	88.0	110.0	66.0	43.0	34.0	26.0	664.0	
1983	2,400	2,385	40.0	19.0	32.0	35.0	74.0	93.0	108.0	92.0	60.0	43.0	30.0	37.0	663.0	
1984	2,513	2,500	42.0	37.0	41.0	41.0	77.0	100.0	120.0	113.0	69.0	43.0	34.0	36.0	753.0	
1985	2,576	2,562	43.0	38.0	41.0	59.0	82.0	100.0	120.0	106.0	57.0	47.0	29.0	42.0	764.0	
1986	2,577	2,563	42.0	30.0	39.0	55.0	78.0	111.0	126.0	129.0	80.0	48.0	41.0	40.0	819.0	
1987	2,577	2,563	41.0	36.0	39.0	68.0	94.0	98.0	99.0	124.0	84.0	67.0	40.0	41.0	831.0	
1988	2,568	2,553	42.0	38.0	46.0	58.0	67.0	137.0	137.0	127.0	100.0	68.0	38.0	42.0	900.0	
1989	2,625	2,609	44.0	44.0	45.0	53.0	60.0	104.0	128.0	105.0	79.0	51.0	36.0	41.0	790.0	
1990	2,629	2,610	41.0	38.0	42.0	58.0	82.0	92.0	122.0	107.0	90.0	55.0	36.0	44.0	807.0	
	PERSONS	AVERAGE										-				
YEAR	PER	POPULA-				1	PER CAP	ITA WAT	er use	(gpcd)/	3			-	UNNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.80	5,950	114	145	190	235	331	375	483	542	403	298	185	125	287	0.32
1981	2.79	6,305	153	193	194	238	333	455	553	583	439	205	174	143	306	0.343
1982	2.77	6,376	182	162	197	220	390	387	445	557	345	218	178	132	285	0.32
1983	2.76	6,620	195	102	156	176	361	468	526	448	302	210	151	180	274	0.30
1984	2.74	6,897	196	185	192	198	360	483	561	528	333	201	164	168	299	0.33
1985	2.73	7,035	197	193	188	280	376	474	550	486	270	216	137	193	298	0.33
1986	2.72	7,002	193	153	180	262	359	528	580	594	381	221	195	184	320	0.35
1987	2.70	6,967	190	185	181	325	435	469	458	574	402	310	191	190	327	0.36
1988	2.69	6,907	196	190	215	280	313	661	640	593	483	318	183	196	357	0.40
		7,024	202	224	207	252	276	494	588	482	375	234	171	188	308	0.34
1989	2.68	1,024	202	B-B-T	201	Second Second	210	7/7	200	-						
1989 1990	2.68	6,999	189	194	194	276	378	438	562	493	429	254	171	203	316	0.354

^{1/} Number of services

.....

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	TRINITY			ATER A	GENCY		RINITY	COUNTY	WATER D	ISTRICT	#1 0	RIGIN C	F WATER	(in pe	ercent):	
CITY	HAYFORK		1	TYPE OF	AGENCY.	Р	UBLIC W	ATER DI	STRICT							
SYSTEM #.			53003									SURFAC	E WATER		100	
HYDROLOG:	IC REGION		NORTH CO	DAST		SYSTEM	SERVES	:				WELLS	AND SPR	INGS	0	
PI ANNING	SUBAREA	#	LOWER KL	AMATH-S	SMITH											
			7			RE CITY										
) W			•					UTSIDE.				CLIPCE C	E MATER	(in or	ercent):	
COTIMATE	D POPULAT	TON						Υ				NONCE C	, marian	(III p	i concy.	
		1,610								X		DUDCHA	SED		0	
	• • • • • • • • • • • • • • • • • • • •	•			OTHE	K			•••••	^			UPPLIED		100	
1990	• • • • • • • • • • • • • • • • • • • •	1,565				CONNECT	1000	**				SELF S	OPPLIED	•••••	100	
					SERVICE	CONNECT										
RESIDENT				COMMERCI				INDUSTRI		_		OVERNME				
	d	442			ed	59			d	5			d	27		
Flat R	ate	0		Flat I	Rate	0		Flat F	ate	0		Flat F	late	0		
YEAR	ACTIVE				1	OTAL W	TER IN	TO SYSTE	M (MILL	ION GAL	LONS)					
OF		TIONS /2								4110					*******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	540	540	/5	-	-	-	-	-	-	-		-	-	-	- 17	
1981	540	540		-	-	-	-	-	19.8	26.5	14.2	12.0	5.2	6.4	-	
1982	538	538	5.5	5.9	5.0	7.5	16.5	17.8	17.9	18.9	12.5	10.7	5.5	9.8	133.5	
1983	500	500	7.1	5.3	5.4	9.4	10.4	19.4	28.1	23.6	12.9	9.2	6.6	9.2	146.6	
1984	516	516	5.9	6.5	8.8	9.2	13.5	31.1	28.0	22.5	19.4	10.7	7.9	9.9	173.4	
1985	532	532	7.8	9.3	8.8	10.7	21.3	35.4	30.8	30.7	13.5	12.4	10.1	10.1	200.9	
1986	522	522	8.7	8.3	9.1	12.7	25.2	27.4	39.6	32.9	18.4	12.2	10.0	11.0	215.6	
										27.2			7.2			
1987	524	524	10.0	8.0	7.5	12.7	18.9	21.1	23.0		18.2	14.6		8.1	176.5	
1988	527	527	8.0	7.2	8.4	9.8	11.6	14.7	22.3	26.4	17.7	14.2	7.0	7.9	155.0	
1989	524	524	9.7	7.8	7.3	12.3	18.3	20.3	22.9	23.9	16.1	9.8	8.7	8.9	166.0	
1990	525	525	8.7	8.3	10.4	13.4	18.7	22.9	28.1	26.2	20.0	16.2	13.0	17.4	203.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	ITA WATE	R USE	(gpcd)/3				- 1	NHUALLY	
OF	CONNEC-	TION													gpcd	af
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	1
1980	2.98	1,610														••••
1981	2.98	1,610							397	531	294	240	108	128		
1982	2.98	•	111	131	101	156	332	370	360	380	260	215	114	197	228	0.2
1983		1,604	111	127	117	210	225	434	608	511	288	199	148	197	269	0.2
11.00	2.98	1,491														
1984	2.98	1,538	124	146	185	199	283	674	587	472	420	224	171	208	309	0.3
1985	2.98	1,586	159	209	179	225	433	744	626	624	284	252	212	205	347	0.3
1986	2.98	1,556	180	190	189	273	522	587	821	683	395	252	213	228	380	0.4
1987	2.98	1,562	207	183	155	271	390	450	475	562	388	301	154	167	310	0.3
1988	2.98	1,571	164	157	171	208	237	312	458	542	376	292	149	162	270	0.3
1989	2.98	1,562	200	178	151	262	378	433	473	494	344	202	186	184	291	0.3
4000		4 5 45	4700	400		-		100	-	EIO	124	77/	277	750	754	0.3
1990	2.98	1,565	179	189	214	285	385	488	579	540	426	334	277	359	356	0.4

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{5/} Missing data not available

	TRINITY				ENCY					s. DIST	. (ORIGIN C	F WATER	(in pe	ercent):	
	WEAVERVIL			YPE OF	AGENCY.	Р	UBLIC V	MTER DI	STRICT							
													E WATER		99	
						STSTEP	SERVES	:				METTZ	AND SPR	INGS	1	
		#l	.UMER KI	AMAIN-S		DE CLT	,									
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	,					UTSIDE.				SOURCE C	SE LIATER	din n		
	D DOO!!! AT	TON						Y			,	SOURCE C	T WATER	Cin pe	rcent):	
	D POPULAT									X		DIJDCUA	NSED		0	
					OTAL					^			SUPPLIED		100	
1990		3,900			SERVICE	CONNECT	TIONS	/1				SELF S	OFFICE		100	
RESIDENT	TAL .			COMMERCI		COMMEC		INDUSTRI	AI -			GOVERNME	NTAL .			
	d	1,100	,		d	186			d	1	,		d	40		
	ate				Rate	0			ate	0.			Rate	0		
rtat k	ate	U		rtat i	late	·		1100	acc	•		i tat i		·		
YEAR	ACTIVE	SERVICE			1	OTAL IM	TER INT	O SYSTE	M-CHILL	ION GAL	LONS)					
OF		TIONS /2				JINE W	441		411861							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,108	1,108	9.3	9.2	9.8	10.8	15.9	21.3	24.9	20.7	19.4	15.4	14.1	18.8	189.5	
1981	1,125		18.0	12.0	17.0	21.0	22.0	26.0	35.9	29.4	24.3	16.1	13.3	13.5	248.5	
1982	1,138		12.0	11.0	11.4	10.8	11.4	22.5	22.3	25.0	16.5	12.5	12.3	11.5	179.2	
1983	1,149		11.3	9.5	10.9	10.3	15.2	22.9	22.3	26.2	18.6	14.4	15.3	14.6	191.5	
1984	1,158		14.8	15.5	13.2	15.4	21.3	26.3	30.8	31.2	22.4	17.9	15.1	16.2	240.0	
1985	1,207		15.3	13.4	12.5	16.6	23.0	23.4	30.1	23.2	18.3	17.4	13.3	14.1	220.6	
1986	1,218		17.4	13.2	15.3	18.6	26.5	34.3	33.7	36.8	26.1	17.1	13.4	19.9	272.1	
1987	1,232		18.2	15.4	15.2	19.7	25.2	28.7	32.6	34.7	27.7	20.8	22.1	20.8	281.1	
1988	1,254		16.5	17.0	18.6	18.1	18.2	21.9	32.3	37.3	28.9	17.5	13.7	13.8	253.6	
1989	1,238		15.7	15.5	16.1	16.1	22.3	32.9	35.1	37.2	20.1	17.4	14.6	14.9	257.9	
1990	1,320	1,320	17.1	14.6	13.6	17.2	19.8	22.9	30.9	27.9	23.0	18.0	13.2	15.5	233.7	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-					PER CAP	ITA WATE	R USF	(gpcd)/3	3				WNUALLY	
OF	CONNEC-	TION					ER GW		000	(Spec),.					gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
. 1980	3.00	3,320	91	95	95	108	155	214	242	201	195	149	141	182	156	0.17
1981	3.00	3,371	172	127	163	208	211	257	343	282	240	154	131	129	202	0.22
1982	3.00	3,411	113	115	108	105	108	220	211	236	161	118	120	109	144	0.16
1983	3.00	3,444	106	99	102	100	142	222	209	246	180	135	148	137	152	0.17
1984	3.00	3,471	137	154	123	148	198	253	286	290	215	166	145	150	189	0.21
1985	3.00	3,619	136	132	111	153	205	215	268	207	168	155	123	126	167	0.18
1986	3.00	3,652	154	129	135	169	234	313	298	325	238	151	123	175	204	0.22
1987	3.00	3,695	159	149	133	178	220	259	284	303	250	182	200	182	208	0.23
1988	3.00	3,761	141	155	159	161	156	194	277	319	256	150	121	118	185	0.20
1989	3.00	3,714	136	149	140	145	194	295	305	323	180	151	131	129	190	0.21
1990	3.00	3,960	139	132	111	145	161	193	252	227	194	147	111	126	162	0.18
AVEDACE			135	174	426	147	180	240	270	269	207	151	136	142	178	0.20
AVERAGE			130	131	125	147	180	240	2/0	209	201	131	130	146	1/0	0.20

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^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SISKIYOU			HATER A	GENCY		IAPPY CA	MP COM	M. SERV	S. DIST.	. (ORIGIN O	OF WATER	(in p	ercent):	
	HAPPY CAM	P		TYPE OF	AGENCY.	F	UBLIC N	ATER D	ISTRICT							
SYSTEM #			47012									SURFAC	E WATER		100	
				DAST		SYSTE	SERVES	S:				WELLS	AND SPR	INGS	0	
PLANNING	SUBAREA	#	LOWER KI	LAMATH-	SMITH											
DAU #			10		ENTI	RE CITY										
					ENTI	RE CITY	PLUS C	UTSIDE			1	SOURCE (F WATER	(in p	ercent):	
ESTIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	η								
1980		1,085			OTHE	R				X		PURCH	ASED		0	
1990		1,110										SELF S	SUPPLIED		100	
				13	SERVICE	CONNECT	TIONS /	/1								
RESIDENT	IAL:		(COMMERC	IAL:		1	NDUSTR	IAL:			GOVERNME	ENTAL:			
Metere	d	3		Heter	ed	61		Meter	ed	2		Meter	d	7		
Flat R	ate	329		Flat	Rate	2		Flat	Rate	0		Flat F	late	5		
YEAR	ACTIVE	SERVICE			Т	OTAL W	TER IN	O SYST	EM (MIL	LION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	422	422	/5						30.0	30.0	26.0	20.0	18.0	16.0		
1980	422	422	/5 16.0	11.0	8.0	10.0	18.0	21.0	26.0	22.0	13.0	15.0	14.0	16.0	186.0	
1982	420	431	15.0	12.0	14.0	14.0	24.0	21.0	32.0	35.0	24.0	15.0	13.0	12.0	231.0	
1983	434	434	13.0	12.0	10.0	12.0	22.0	28.0	35.0	39.0	26.0	17.0	14.0	13.0	241.0	
1984	423	423	14.0	13.0	11.0	14.0	24.0	31.0	35.0	39.0	20.0	17.0	14.0	13.0	241.0	
1985	420	420	16.7	14.1	14.3	15.1	21.3	26.0	30.7	27.5	20.6	14.7	11.6	16.0	228.6	
1986	429	429	13.9	12.2	13.5	14.5	16.4	20.0	30.7		5.5	14.4	13.0	14.9	220.0	
1987	414	414	22.6	13.7	14.3	17.8	22.3	23.0	27.0	31.3	20.8	22.2	18.0	17.8	250.8	,
1988	407	407	17.5	14.8	15.6	15.4	14.3	-		31.3		-		13.1		
1989	408	408	13.5	14.5	13.2	13.8	15.9	26.2	34.2	35.0	24.0	15.0	13.3	13.6	232.2	
1990	410	410	13.0	12.3	12.8	16.0	20.7	21.9	33.0	26.7	22.4	16.1	12.9	18.5	226.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	ITA WAT	ER USE	(gpcd)/3	3			-	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.57	1,085	-	-	-	-	-	-	892	892	799	595	553	476	-	
1981	2.58	1,101	469	357	234	303	527	636	762	645	394	439	424	352	463	0.518
1982	2.60	1,120	432	383	403	417	691	625	922	1,008	714	432	387	346	565	0.63
1983	2.61	1,134	370	378	285	353	626	823	996	1,110	765	484	412	370	582	0.65
1984	2.63	1,111	407	404	319	420	697	930		-	-	-	•	•	•	-
1985	2.64	1,108	486	454	416	454	620	782	893	800	619	428	349	466	565	0.63
1986	2.65	1,138	394	383	383	425	465	-	-	-	161	408	381	422	-	-
	2.67	1,104	660	443	418	537	652	695	789	915	628	649	544	520	622	0.69
1987	2 /0	1,091	518	468	461	471	423	-	-	-	•	•	-	387		•
1988	2.68	•														
1988 1989	2.69	1,099	396	471	387	419	467	795	1,004	1,027	728	440	403	399	579	
1988		1,099 1,110	396 378	471 396	387 372	419 480	467 602	795 658	1,004 959	1,027 776	728 673	468	403 387	399 538	579 559	0.648

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - ecre-feet per capita annually

	DEL NORTE				GENCY							ORIGIN O	OF WATER	(in pe	ercent):	
CITY	CRESCENT	CITY		TYPE OF	AGENCY.		MUNICIPA	L WATER	DEPART	MENT						
SYSTEM #			8001									SURFA	E WATER		0	
HYDROLOG	IC REGION		NORTH C	DAST		SYSTE	SERVES	:				WELLS	AND SPE	INGS	100	
PLANNING	SUBAREA	#	OWER K	LAMATH-	SMITH											
AU #			14		ENTI	RE CITY	Y									
					ENTI	RE CITY	PLUS C	UTSIDE.		X		SOURCE (OF WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
1980		3,075			OTHE	R						PURCH/	ASED		0	
1990		4,380										SELF S	SUPPLIED		100	
					SERVICE	CONNECT	TIONS /	/1								
RESIDENT	IAL:			COMMERC	IAL:		1	NOUSTRI	AL:			GOVERNM	ENTAL:			
Metere	d	3,382		Meter	ed	414		Metere	d	8		Meter	ed	26		
Flat R	ate	2		Flat I	Rate	1		Flat F	Rate	0		Flat I	Rate	0		
YEAR	ACTIVE	SERVICE			,	OTAL W	ATER INT	O SYSTE	M CHILL	ION GAL	LONS					
OF		TIONS /2							4							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,266	830	32.4	28.5	29.5	33.5	37.6	44.8	53.9	55.6	44.6	37.8	31.0	32.8	462.0	
1981	2,640	1,219	36.1	30.4	33.5	37.0	40.5	43.0	58.7	55.1	44.7	37.0	35.3	39.2	490.5	
1982	2,662	1,112	31.6	28.4	30.1	31.7	45.9	39.3	48.7	54.3	42.0	36.6	30.2	33.2	452.0	
1983	2,796	1,188	32.5	29.8	33.1	33.1	36.6	45.7	55.6	65.6	40.9	38.8	36.8	40.2	488.7	
1984	2,990	1,252	35.3	32.7	35.9	32.5	35.7	40.4	59.3	60.6	51.2	41.2	34.1	36.2	495.1	
1985	2,934	1,227	36.2	30.8	30.8	32.9	42.7	36.4	55.2	52.6	38.5	36.2	30.2	33.2	455.7	
1986	3,029	1,244	30.7	28.3	31.6	34.0	39.8	47.2	56.4	53.7	42.4	35.4	31.3	34.9	465.7	
1987	3,148	1,256	32.9	30.3	32.1	41.7	45.8	49.9	58.9	55.8	46.9	43.8	32.0	35.0	505.1	
1988	3,190	1,255	30.6	28.1	30.8	32.1	36.1	42.6	56.2	56.0	44.5	43.5	33.1	37.4	471.0	
1989	3,261	1,262	38.8	40.2	39.3	51.3	59.0	62.6	64.2	69.7	59.6	50.8	41.5	45.3	622.3	
1990	3,733	1,226	47.4	40.9	51.6	57.0	69.8	71.2	80.7	76.9	67.9	66.2	59.0	69.7	758.3	
	PERSONS	4150405														
YEAR	PER	AVERAGE POPULA-					DED CAD	TA UATE	ER USE	(gpcd)/3	t				WNUALLY	
OF	CONNEC-	TION					LK WW		LK OOL	(Spoo)/.				,	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.70	8,395	124	117	113	133	144	178	207	214	177	145	123	126	151	0.169
1981	3.69	9,746	119	111	111	127	134	147	194	182	153	122	121	130	138	0.154
1982	3.68	9,792	104	104	99	108	151	134	160	179	143	121	103	109	126	0.142
1983	3.67	10,248	102	104	104	108	115	149	175	206	133	122	120	127	131	0.146
1984	3.65	10,919	104	103	106	99	105	123	175	179	156	122	104	107	124	0.139
1985	3.64	10,676	109	103	93	103	129	114	167	159	120	109	94	100	117	0.131
1986	3.63	10,982	90	92	93	103	117	143	166	158	129	104	95	103	116	0.130
1987	3.61	11,371	93	95	91	122	130	146	167	158	137	124	94	99	122	0.136
1988	3.60	11,481	86	84	87	93	101	124	158	157	129	122	96	105	112	0.126
1989	3.59	11,693	107	123	108	146	163	178	177	192	170	140	118	125	146	0.163
1990	3.57	13,336	115	110	125	142	169	178	195	186	170	160	147	169	156	0.174
AVEDACE			105	10/	103	117	133	147	177	179	147	127	110	118	131	0.146
AVERAGE			105	104	103	117	133	147	177	179	147	12/	110	110	131	0.140

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COLINITY I	MENDOCINO			WATER A	GENCY		FORT BR	AGG. CII	Y OF			NEIGIN (OF WATER	(in n	ercent):	
	FORT BRAG			TYPE OF						MENT				, (III p		
				0.								SURFAC	E WATER		100	
				DAST		SYSTE	SERVES	s:					AND SPE		0	
		#														
			17		ENT	RE CITY	r									- 1 - 1
					ENT	RE CIT	PLUS	OUTSIDE.		x		SOURCE (OF WATER	(in p	ercent):	
CITY CENS	SUS POPUL	ATION			POR	TION OF	THE CI	ry								87
					ОТНІ	R						PURCH	ASED		0	
												SELF S	SUPPLIE		100	
				:	SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	ENTAL:			
Metered	d	2,006		Meter	ed	346		Metere	ed	18		Meter	ed	20		
	ate	•		Flat	Rate	2		Flat F	ate	0		Flat I	Rate	0		
		_														
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														e
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	1
1980	2,044	1.961	27.0	25.0	26.0	27.0	33.0	34.0	42.0	41.0	35.0	32.0	27.0	28.0	377.0	******
1981	2,079	1,996	26.0	25.0	25.0	26.0	31.0	38.0	40.0	39.0	38.0	32.0	28.0	29.0	377.0	
1982	2,114	2,031	30.0	28.0	31.0	28.0	34.0	36.0	40.0	37.0	32.0	28.0	23.0	24.0	371.0	
1983	2,149	2,066	22.0	23.0	29.0	30.0	31.0	35.0	37.0	34.0	28.0	27.0	23.0	26.0	345.0	
1984	2,184	2,101	26.0	25.0	28.0	29.0	36.0	41.0	48.0	41.0	35.0	27.0	26.0	27.0	389.0	
1985	2,219	2,136	28.0	37.0	28.0	31.0	41.0	43.0	42.0	39.0	33.0	34.0	29.0	27.0	412.0	
1986	2,254	2,171	31.0	26.0	32.0	37.0	40.0	44.0	47.0	45.0	37.0	35.0	33.0	32.0	439.0	
1987	2,286	2,205	33.0	31.0	36.0	36.0	41.0	42.0	42.0	40.0	36.0	36.0	24.0	23.0	420.0	
1988	2,318	2,239	23.0	25.0	30.0	31.0	32.0	35.0	41.0	38.0	35.0	27.0	24.0	24.0	365.0	
1989	2,324	2,238	23.0	21.0	23.0	25.0	31.0	35.0	39.0	38.0	32.0	30.0	27.0	27.0	351.0	
1990	2,394	2,311	22.0	20.0	24.0	28.0	31.0	33.0	41.0	39.0	36.0	33.0-	26.0	26.0	359.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				-	PER CAP	ITA WATE	ER USE	(gpcd)/3	5				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.56	5,231	166	165	160	172	203	217	259	253	223	197	172	173	197	0.221
1981	2.57	5,336	157	167	151	162	187	237	242	236	237	193	175	175	194	0.217
1982	2.57	5,440	178	184	184	172	202	221	237	219	196	166	141	142	187	0.209
1983	2.58	5,546	128	148	169	180	180	210	215	198	168	157	138	151	170	0.191
1984	2.59	5,651	148	153	160	171	205	242	274	234	206	154	153	154	189	0.211
	2.59	5,758	157	230	157	179	230	249	235	219	191	190	168	151	196	0.220
1985		5,864	171	158	176	210	220	250	259	248	210	193	188	176	205	0.230
1985 1986	2.60	3,007										4.00				
	2.60 2.61	5,964	178	186	195	201	222	235	227	216	201	195	134	124	193	0.216
1986				186 142	195 160	201 170	222 170	235 192	227 218	216 202	192	195	134 132	124 128	193 165	0.216
1986 1987	2.61	5,964	178											-		

^{1/} Number of services

161

220

235

199

153

174

150

183 0.205

160 173 195 220

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	HUMBOLDT			WATER A	GENCY		FORTUNA	, CITY C	OF .			ORIGIN (OF WATER	(in p	ercent):	
CITY	FORTUNA			TYPE OF	AGENCY.		UNICIP	AL WATER	DEPART	MENT						
SYSTEM #	F		12006									SURFA	CE WATER	2	0	
HYDROLOG	IC REGION	l	NORTH C	DAST		SYSTE	4 SERVE	S:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	COASTAL													
DAU #			20		ENT	RE CIT	r									
					ENT	RE CIT	PLUS	OUTSIDE.				SOURCE (OF WATER	(in p	ercent):	
CITY CEN	ISUS POPUL	LATION			PORT	TION OF	THE CI	τγ								
	•••••				OTHE	R	• • • • • • •	• • • • • • • •	•••••	X		PURCH	ASED		0	
1990	•••••	8,788										SELF S	SUPPLIE)	100	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTRI				GOVERNM				
	ed	•			ed	337			ed	NA			ed	NA		
Flat F	ate	. 0		Flat	Rate	0		Flat R	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE			,	TOTAL LA	ATED IN	TO SYSTE	M (MILI	TON CAL	LONG					
OF		CTIONS /2				JINL W	TIEN IN	.0 91910	at CHILL	On Wil	.LUH3/					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
															AMINUAL	
1980	1,921	1,897	/5	•	10.2	16.6	17.1	20.0	24.5	24.4	21.0	21.4	19.7	21.2	-	
1981	1,925	1,900	18.8	16.7	17.9	17.3	18.8	24.5	27.5	26.7	22.2	20.9	19.5	18.5	249.3	
1982	1,930	1,906	18.5	17.4	18.0	18.4	22.8	23.7	24.9	26.1	20.7	19.3	16.6	21.6	247.9	
1983	2,050	2,020	19.5	14.5	20.2	20.3	20.7	27.0	27.7	29.8	24.8	21.7	21.0	22.4	269.6	
1984	2,160	2,137	22.4	20.6	19.9	20.4	19.2	22.3	28.3	28.2	24.3	20.2	19.8	20.8	266.3	
1985	2,161	2,138	20.5	18.5	20.5	20.6	25.4	23.8	29.8	28.4	19.1	14.9	18.0	17.4	256.9	
1986	3,534	3,460	24.7	23.4	23.4	27.8	27.6	36.1	42.5	39.5	31.7	29.8	23.5	25.2	355.2	
1987	3,699	3,625	24.3	23.7	25.9	28.6	34.4	37.2	42.2	41.7	34.7	35.1	27.5	31.4	386.7	
1988	3,720	3,645	27.1	25.2	28.7	27.9	33.6	30.7	44.2	39.9	35.8	29.5	28.2	28.2	379.0	
1989	3,739	3,665	26.8	26.3	27.7	27.8	33.6	36.1	42.5	40.7	35.5	32.6	31.0	30.2	391.0	
1990	3,825	3,751	30.2	27.2	28.3	29.0	35.6	35.9	44.3	42.0	37.0	32.9	30.2	30.9	403.5	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					OFD CAD	ITA WATE	D 110E	aned) /3					ANNUALLY	
OF	CONNEC-	TION					Cit Gra		IN OOL .	Spou),					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.50	4,800	-	-	69	115	115	139	165	164	146	144	137	143	-	-
1981	2.48	4,780	127	124	121	120	127	171	186	180	155	141	136	125	143	0.160
1982	2.47	4,762	125	131	122	129	155	166	169	177	145	130	116	146	143	0.160
1983	2.45	5,026	125	103	130	135	133	179	178	191	164	139	139	144	147	0.165
1984	2.44	5,263	138	135	122	129	118	141	173	173	154	124	125	128	139	0.155
1985	2.42	5,231	127	126	126	131	157	152	184	175	122	92	115	107	135	0.151
1986	2.41	8,500	94	98	89	109	105	141	161	150	124	113	92	96	115	0.128
1987	2.39	8,839	89	96	94	108	126	140	154	152	131	128	104	115	120	0.134
1988	2.37	8,831	99	98	105	105	123	116	161	146	135	108	106	103	118	0.132
1989	2.36	8,818	98	106	101	105	123	136	155	149	134	119	117	110	121	0.136
1990	2.34	8,961	109	108	102	108	128	134	159	151	138	118	113	111	123	0.138
AVERAGE			113	113	107	118	128	147	168	164	141	123	118	121	130	0.146
																311.40

^{1/} Number of services
2/ Excludes services for agriculture, fire hydrants, fire protection, and other agencies.
3/ gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually
5/ MiMissing data unavailable

	HUMBOLDT				GENCY			•			-	ORIGIN C	OF WATER	(in p	ercent):	
	RIO DELL			TYPE OF	AGENCY.	M	UNICIPA	L WATER	DEPART	MENT						
													CE WATER			
		N		DAST		SYSTEM	SERVES	:				WELLS	AND SPE	INGS	100	
PLANNING	SUBAREA	#	COASTAL													
DAU #		• • • • • • • • • • • • • • • • • • • •	20					• • • • • • •								
					ENTI	RE CITY	PLUS (UTSIDE.	•••••	х		SOURCE (OF WATER	(in p	ercent):	
CITY CEN	ISUS POPUL	MOITA			PORT	ION OF	THE CIT	γ								
1980		2,715			OTHE	R	• • • • • •	•••••					ASED			
1990		3,012										SELF S	SUPPLIED)	100	
					SERVICE	CONNECT	IONS /	1								
RESIDENT	IAL:		(COMMERC	IAL:		1	NDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	d	1,123		Meter	ed	27		Metere	d	NA		Meter	ed	NA		
Flat R	ate	0		Flat	Rate	0		Flat R	ate	0		Flat F	Rate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL WA	TER IN	O SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,100	1,060	/5		-	-	-	-	-	-	-	-	-	-		
1981	•	•	-	-	-	-	-	-	-	-		-	-	-	-	
1982	1,105	1,077	-	-	-	-	-	-	7.0	7.0	7.0	7.0	5.0	10.0	-	
1983	1,109	1,081	7.0	10.0	11.0	9.0	9.0	11.0	7.0	7.0	7.0	7.0	5.0	10.0	100.0	
1984	1,100	1,074	7.0	10.0	11.0	9.0	9.0	12.0	8.0	8.0	8.0	8.0	6.0	9.0	105.0	
1985	1,080	1,052	8.0	8.0	8.0	9.0	8.0	11.0	12.0	10.0	11.0	11.0	9.0	8.0	113.0	
1986	1,175	1,155	8.0	8.0	8.0	8.0	9.0	12.0	14.0	12.0	13.0	12.0	10.0	9.0	123.0	
1987	1,050	1,029	-	-	-	-	-					-	-	-	-	
1988	1,064	1,042	7.0	7.0	8.0	9.0	9.0	9.0	12.0	12.0	11.0	9.0	9.0	11.0	113.0	
1989	1,125	1,100	12.0	7.0	8.0	8.0	9.0	10.0	11.0	11.0	9.0	8.0	8.0	8.0	109.0	
1990	1,154	1,130	6.0	6.0	6.0	6.0	7.0	8.0	10.0	9.0	8.0	7.6	6.0	6.0	85.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAP	TA WATE	R USE	(apcd)/3	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000																
1980	2.56	2,817	-	-	-	-	-	-	•	•	-	•	•	•	•	
1981	2.57	2 057	-	-	-	•	-	-	-	-	-	-	-	447	•	
1982	2.58	2,853	-	-	407	401	444	420	79	79	82	79	58	113		0.407
1983	2.59	2,875	79	124	123	104	101	128	79	79	81	79	58	112	95	0.107
1984	2.60	2,863	79	120	124	105	101	140	90	90	93	90	70	101	100	0.113
1985	2.61	2,822	91	101	91	106	91	130	137	114	130	126	106	91	110	0.123
1986	2.62	3,083	84	93	84	86	94	130	146	126	141	126	108	94	109	0.122
1987	2.63	2,766			-	-	-	-	-	-	-	-	-	-	-	-
1988	2.64	2,814	80	86	92	107	103	107	138	138	130	103	107	126	110	0.123
1989	2.66	2,987	130	84	86	89	97	112	119	119	100	86	89	86	100	0.112
1990	2.67	3,076	63	70	63	65	73	87	105	94	87	73	65	63	76	0.085
AVERAGE			86	97	95	95	95	119	112	105	105	95	83	98	100	0.112

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing date unavailable

	HUMBOLDT	-		WATER AG						K DISIK	101 0	MIGIN O	F WATER	(in pe	reent):	
	HYDESVILL	_		TYPE OF	AGENCY.	Р	UBLIC N	ATER DI	STRICT							
		•••••											E WATER		400	
		#		UMSI		SYSTEM	SERVES					MELLS	AND SPR	INGS	100	
			21		ENTI	DE CLTY										
AU #		•••••						UTSIDE.				OUBCE O	F WATER	(in no	noent).	
CTIMATE	D POPULAT	TON						γ			•	OURCE U	T WATER	(in pe	rcent):	
										X		PLIPCHA	SED		0	
													UPPLIED		100	
		.,		s	ERVICE	CONNECT	IONS /	1				-				
ESIDENT	TAL:			COMMERCI				NDUSTRI.	AL:		G	OVERNME	NTAL:			
	d	380		Metere	d	3		Metere	d	NA		Metere		2		
	ate			Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			T	OTAL WA	TER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	270	270	5/		-			-	-	-	-	-		-		
1981	275		-	-	-	-	-	-	-	-	-	-	-	-	-	
1982	275		-	-	-	-	•	-	-	-	•	-	-	•	-	
1983	280		-	-	-	-	-	-	5.5	4.8	3.2	3.1	2.5	2.5	-	
1984	292		2.8	2.5	2.8	3.2	3.3	3.6	2.7	5.0	3.9	2.9	2.2	2.3	37.1	
1985	295		2.9	2.3	2.3	2.7	4.2	4.2	-	-	-	-	-	-	-	
1986	301		2.2	2.4	2.6	2.6	3.2	5.0	5.7	6.1	3.3	2.8	2.5	2.5	40.9	
1987	326		2.4	2.1	2.3	2.9	4.2	5.5	5.4	6.0	3.9	3.6	2.7	2.7	43.7	
1988	349		2.5	2.5	2.9	3.0	3.5	2.4	4.4	5.2	4.8	3.6	3.0	2.7	40.6	
1989	350		2.6	2.6	2.8	2.9	3.7	4.9	5.9	5.2	4-1	3.3	3.1	3.0	44.1	
1990	376	376	3.2	2.7	3.1	3.4	4.5	4.6	6.3	5.5	5.1	3.7	3.2	4.5	49.6	
	DEDGONG	AVERAGE														
YEAR	PER	POPULA-				Р	ER CAPI	TA WATE	R USE (apcd)/3				A	NNUALLY	
OF	CONNEC-	TION													gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.00	810														
1981	2.98	819									_				_	
1982	2.96	814							_							
1983	2.94	823			-	-			215	189	129	121	101	99	-	-
1984	2.92	852	105	100	106	125	126	140	101	188	151	109	88	88	119	0.13
1985	2.90	854	110	95	87	104	157	163		-	-				-	-
1986	2.88	866	80	101	97	99	121	193	212	227	126	104	97	94	129	0.14
1987	2.85	931	83	80	80	104	145	197	188	207	139	126	98	95	129	0.14
1988	2.83	989	83	88	95	102	114	80	143	171	161	117	101	88	113	0.12
1989	2.81	985	85	96	92	99	122	164	193	170	139	109	103	99	123	0.13
1990	2.79	1,050	99	92	94	106	138	146	194	169	162	112	100	139	130	0.14
LVEDACE			m	m	93	104	172	155	178	189	144	114	98	100	124	0.13
WERAGE			92	93	73	106	132	133	1/6	103	144	1.14	70	100	124	0.13

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

3/ gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annuments.

^{4/} afpca - acre-feet per capita annually

COUNTY	. HUMBOLDT							AKE, CITY				ORIGIN C	F WATER	(in p	ercent):	
	BLUE LAKE			TYPE OF	AGENCY.		AUNICIE	PAL WATER	DEPART	MENT						
		• • • • • • • •											E WATER		0	
HYDROLOG	GIC REGION		NORTH C	OAST		SYSTE	4 SERVI	ES:				WELLS	AND SPR	RINGS	100	
PLANNING	SUBAREA	#	COASTAL													
DAU #			30		ENTI	RE CITY	1	• • • • • • • •								
								OUTSIDE.		х		SOURCE C	OF WATER	(in p	ercent):	
CITY CEN	NSUS POPUL	MOITA			PORT	ION OF	THE C	ITY								
1980		1,201			OTHE	R						PURCH/	SED		100	
1990		1,235										SELF S	SUPPLIED		0	
					SERVICE	CONNECT	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	ed	603		Meter	ed	31		Metere	d	6		Metere	ed	7		
Flat R	Rate	0		Flat I	Rate	1		Flat R	ate	0		Flet F	ate	0		-01
YEAR	ACTIVE	SERVICE						1	OTAL WA	TER INT	O SYST	EM (mill	ion gal	llons)	/5	
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	548	480	4.6	4.3	4.6	4.2	5.2	6.2	7.4	8.0	5.3	4.8	4.7	4.6	63.9	
1981	557	490	4.7	4.8	5.7	5.8	5.7	7.7	8.7	8.4	7.0	6.0	6.4	5.4	76.4	
1982	556	489	4.7	4.3	5.6	5.6	7.7	6.3	7.1	7.2	6.1	5.5	4.5	4.7	68.8	
1983	556	489	5.1	4.5	6.1	4.8	5.7	7.0	7.5	7.0	5.4	6.0	5.3	4.8	69.3	
	552	488	5.8	5.4	6.2	6.2	8.2	8.9	8.7	8.3	7.0	5.0	4.7	4.8	79.3	
1984	592	511	5.1	4.2	4.9	4.9	6.8	7.5	9.4	8.7	8.5	5.5	4.3	4.7	74.5	
1985													15.2	12.8		
1986	637	540	5.0 8.9	4.3	7.3 11.9	5.9 10.1	10.2	13.2 14.5	17.9 15.1	17.3 16.4	14.5 13.6	11.2	10.6	11.5	134.7	
1987 1988	611 626	517 532	11.4	10.5	11.5	9.4	12.4	13.1	14.5	15.7	11.1	12.8	12.7	10.2	145.2	
		562	11.4	10.4	10.6	10.5	12.9	13.1	15.5	14.6	13.6	12.6	11.0	11.5	148.3	1
1989 1990	653 649	563	11.9	8.1	11.8	10.9	13.8	14.2	16.2	15.1	14.0	12.9	12.1	8.4	149.3	,
	049	303	11.7	0.1	11.0	10.7	13.0	14.6	3.01	13.1	14.0	16.7	12.1	0.4	147.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				-	PER CA	PITA WATE	R USE ((gpcd)/3	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.50	1,371	109	109	108	103	122	151	173	187	128	113	115	108	128	0.143
1981	2.47	1,376	111	126	133	140	134	186	204	198	170	142	156	126	152	0.170
1982	2.44	1,357	103	113	132	137	184	155	168	170	151	132	111	111	139	0.156
1983	2.41	1,340	123	121	146	120	137	175	181	170	135	144	131	116	142	0.159
1984	2.38	1,313	143	143	152	158	202	227	214	203	178	123	118	118	165	0.185
1985	2.35	1,390	118	107	114	117	158	179	217	203	205	129	104	110	147	0.165
1986	2.32	1,476	108	104	160	134	223	299	391	378	326	244	343	280	250	0.280
1987	2.29	1,397	206	267	276	241	313	346	348	379	326	311	253	265	294	0.330
1988	2.26	1,412	261	254	262	221	283	309	331	360	263	293	300	233	282	0.316
1989	2.22	1,453	254	248	236	241	287	319	345	324	313	279	253	256	280	0.313
1990	2.19	1,424	269	203	268	255	312	333	368	343	327	292	282	190	287	0.322
AVERAGE			164	163	181	170	214	243	267	265	229	200	197	174	206	0.231

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

^{4/} afpca - acre-feet per capita annually Note: Production increase beginning in May 1986, reflects increase in deliveries to industrial customers.

	10 B4DC1 D.T			MATERIA			151655	w ear-		B) 40 0 0 0		0010111	F 116	42.		
	HUMBOLDT	_						OK COMM ATER DI:		RVS. DIS	Ι.	ORIGIN C	F WATER	(in pe	rcent):	
	FIELDBROO			ITPE OF	AGENCY.	r	OBLIC #	AIER DI	SIRICI			CHECK	E WATER		0	
		i		TPACT		CYCTE	SERVES						AND SPR		100	
		#C		UNSI		31316	SERVES					METT?	AMU SPK	1NG5	100	
		*********	30		ENTI	DE CITY	,									
UAU #			30					UTSIDE.				SOURCE C	E UATED	din no	ncont).	
COTIMATO	D POPULAT	TON						Y				SOURCE C	F WATER	(in pe	rcent):	
	D POPOLA					R			х х			DIIDCKA	SED		100	
					OTHE				^				UPPLIED		0	
1770		1,150			SERVICE	CONNECT	IONS /	1				JEET C	OFFEILD		٠	
RESIDENT	TAI •		-	COMMERCI		COMMEC		NDUSTRI	AL :			GOVERNME	NTAL -			
	d	435			ed	14		Metere		4			d	NA		
	ate				ate	0		Flat R		•			ate	NA		
, tut k										•				101		
YEAR	ACTIVE	SERVICE			Т	OTAL WA	TER INT	O SYSTE	M (MIL	LION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	330	330	1.3	1.8	2.0	2.3	2.1	3.3	5.4	4.7	3.7	2.9	3.0	3.7	36.1	
1981	429	429	3.6	2.9	3.4	3.8	5.2	7.2	9.4	8.3	7.4	5.3	5.0	5.1	66.6	
1982	422	422	4.7	3.5	3.7	3.8	6.3	6.6	7.0	7.2	5.9	4.0	4.8	3.3	60.8	
1983	437	437	3.4	3.3	2.6	3.6	4.5	6.2	6.8	7.7	4.4	3.9	3.3	3.3	53.0	
1984	437	437	3.8	3.0	3.4	3.7	4.0	5.0	8.1	7.5	5.9	4.0	2.2	3.4	53.8	
1985	451	451	3.6	3.1	3.8	3.4	4.9	5.5	7.8	6.7	4.4	3.7	2.9	3.3	53.2	
1986	453	453	3.0	2.7	3.4	3.4	4.4	5.9	8.6	8.0	5.1	3.6	3.7	4.1	56.0	
1987	451	451	3.9	3.8	4.9	5.0	5.9	7.2	7.8	9.0	6.2	5.8	3.7	4.4	67.5	
1988	457	457	4.7	3.5	4.5	4.5	5.0	5.2	9.1	8.3	6.4	5.2	3.9	3.5	63.8	
1989	460	460	3.8	3.4	3.6	3.8	5.3	6.9	8.8	8.2	6.2	4.9	4.2	4.2	63.3	
1990	460	460	4.5	2.3	3.3	5.1	6.3	6.5	8.0	8.2	6.7	5.9	4.9	6.0	67.5	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAPI	TA WATE	R USE	(gpcd)/3				A	NNUALLY	
OF	CONNEC-	TION								10,					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.48	820	51	74	79	95	81	132	212	184	152	115	121	145	120	0.135
1981	2.49	1,067	109	97	103	118	158	224	284	250	232	161	157	155	171	0.192
1982	2.49	1,050	145	118	115	121	193	210	216	222	186	122	151	102	159	0.178
1983	2.49	1,088	100	110	78	109	133	191	201	229	134	115	101	98	133	0.149
1984	2.49	1,089	112	95	100	114	117	152	240	221	180	119	69	100	135	0.152
1985	2.49	1,124	104	97	108	101	141	164	225	193	131	105	85	95	130	0.145
1986	2.49	1,130	85	86	97	101	127	175	245	229	150	102	108	117	136	0.152
1987	2.50	1,125	112	120	141	148	170	213	222	258	184	165	109	127	164	0.184
1988	2.50	1,141	133	105	127	133	140	152	256	236	188	148	115	98	153	0.172
1989	2.50	1,149	106	105	100	111	150	200	247	231	180	138	122	119	151	0.169
1990	2.50	1,150	126	71	93	147	176	189	224	230	193	165	141	167	161	0.180
AVERAGE			108	98	104	118	144	182	234	226	174	132	116	120	147	0.164

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^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{1/} Number of services 3/ gpcd - gallons per capita daily

COUNTY	HUMBOLDT		1	MATER AC	ENCY	P	ICKINLE	YVILLE C	OHM. SE	RVS. DI	ST.	ORIGIN C	F WATER	(in pe	rcent):	
C1TY	MCKINLEYV:	ILLE	1	TYPE OF	AGENCY.	F	UBLIC	WATER DI	STRICT							
SYSTEM #			12016									SURFAC	E WATER		0	
HYDROLOG	IC REGION	N	ORTH C	DAST		SYSTE	SERVE	S:				WELLS	AND SPR	INGS	100	
		#C														
DAU #			30		ENTI	RE CITY	·									
					ENT1	RE CITY	PLUS	OUTSIDE.				SOURCE (OF WATER	(in pe	ercent):	
FSTIMATE	POPULAT	ION			PORT	ION OF	THE CI	ITY								
		5,743			OTHE	R				х		PURCH/	ASED		100	
		9,184											SUPPLIED		0	
177411		,,		9	SERVICE	CONNECT	IONS	/1								
RESIDENT	TAI •			COMMERCI				INDUSTRI	AL:			GOVERNM	ENTAL:			
	d	3,085	·		ed	130			d	NA			ed	18		
	ate	0,000			Rate	0			ate	0			Rate	0		
rtat K	alc	•		rtat /		•		1146		•				·		
YEAR	ACTIVE :	SERV1CE			1	OTAL W	ATER II	NTO SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
			47.6		27.4	20.6	70.0	77.0	/E E	/0.2	75 7	74.6	40.0	23.7	355.3	
1980	2,051	2,051	17.8	22.1	23.1	29.0	30.9	37.9	45.5	40.2	35.3	31.0	18.8	23.5	377.6	
1981	2,142	2,142	24.8	21.4	23.4	27.2	38.0	43.3	46.8	46.1	36.7	24.3	22.1			
1982	2,232	2,232	24.0	21.9	22.2	25.4	43.7		36.7	40.7	34.0	25.7	22.6	23.6	361.0	
1983	2,323	2,323	24.3	21.5	23.4	24.9	31.8		42.4	44.4	31.1	28.4	29.0	39.4	380.0	
1984	2,359	2,359	30.2	21.8	23.7	23.0	26.6	31.1	42.2	40.8	37.2	25.5	13.4	25.1	340.6	
1985	2,440	2,440	24.9	21.8	24.3	25.6	35.9	34.1	42.0	42.3	25.3	27.3	24.2	24.8	352.5	
1986	2,652	2,652	24.1	21.4	25.1	27.1	30.5	47.7	45.6	42.1	33.3	26.9	24.5	25.4	373.7	
1987	2,726	2,726	26.1	24.3	23.9	25.0	36.1	41.7	48.8	50.2	41.9	38.4	27.1	27.6	411.1	
1988	2,900	2,900	29.1	28.7	29.6	31.6	33.8	33.7	51.3	48.3	44.5	33.1	28.0	28.5	420.2	
1989	2,957	2,957	29.9	27.1	26.3	34.6	38.1	49.2	53.8	56.8	44.1	33.4	27.9	30.8	452.0	
1990	3,280	3,280	28.3	25.5	29.8	31.4	39.6	40.3	51.1	46.8	40.3	37,0	28.8	34.4	433.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CA	PITA WATE	ER USE	(gpcd)/3	3			-	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.80	5,743	100	133	130	168	174	220	256	226	205	174	109	133	169	0.190
1981	2.80	5,998	133	127	126	151	204		252	248	204	131	123	126	172	0.193
1982	2.80	6,250	124	125	115	135	226		189	210	181	133	121	122	158	0.177
1983	2.80	•	121	118	116	128	158		210	220	159	141	149	195	160	0.175
1984		6,505	147	114	116	116	130		206	199	188	125	68	123	141	0.158
	2.80	6,605			115	125	170		198	200	123	129	118	117	141	0.158
1985	2.80	6,832	118	114					198	183	149	117	110	110	138	0.154
1986	2.80	7,426	105	103	109	122	132		206	212	183	162	118	117	148	0.165
1987	2.80	7,633	110	114	101	109	153									0.159
1988	2.80	8,120	116	122	118	130	134		204	192	183	131	115	113	142	
1989	2.80	8,280	116	117	102	139	148		210	221	178	130	112	120	150	0.168
1990	2.80	9,184	99	99	105	114	139	146	179	164	146	130	105	121	129	0.145

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	HUMBOLDT			WATER AC	ENCY	т	RINIDAD	, CITY	OF		c	RIGIN C	F WATER	(in pe	ercent):	
CITY	TRINIDAD			TYPE OF	AGENCY.	M	UNICIPA	L WATER	DEPART	MENT						
SYSTEM #			12018									SURFAC	E WATER		100	
HYDROLOG	IC REGION	l N	IORTH (COAST		SYSTEM	SERVES	:				WELLS	AND SPR	INGS	0	
PLANN ING	SUBAREA	#	COASTA	L												
DAU #			30		ENT I	RE CITY										
					ENTI	RE CITY	PLUS O	UTSIDE.		х	S	OURCE C	F WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
					OTHE	R						PURCHA	SED		0	
												SELF S	UPPLIED		100	
				5	ERVICE	CONNECT	IONS /	1								
ESIDENT	TAL :			COMMERCI	AL:		1	NDUSTRI	AL:			OVERNME	NTAL:			
	d	245			d	28		Metere		NA			d	2		
	ate				ate	0		Flat R		0			ate	0		
riat k	ate			reac r		•		Trac K	a.c	·		1100		٠		
YEAR	ACTIVE	SERVICE			T	OTAL WA	TER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	256	182	/5		-	-	-	-	2.8	2.6	2.1	1.8	1.8	1.9	-	
1981	258	186	1.8		1.8	1.9	2.1	2.3	2.8	2.1	2.1	2.7	1.7	1.7	24.7	
1982	259	187	1.8		1.8	1.8	2.5	2.3	2.6	2.8	2.6	2.3	1.7	1.8	25.5	
1983	263	107	1.8		1.9	1.9	3.0	3.0	3.1	3.3	3.0	2.4	1.8	1.6	28.6	
1984	267		1.9		2.1	2.4	2.1	2.5	3.6	3.4	2.3	1.7	1.7	1.6	27.1	
1985	269		1.8		2.0	2.0	2.2	2.3	3.0	2.7	2.0	2.2	2.6	2.2	26.9	
1986	270	190	2.2		2.3	2.4	2.5	3.0	3.4	2.6	2.0	2.3	2.1	2.2	29.0	
1987	270	190	2.0		2.1	2.1	2.7	2.9	3.0	3.0	2.7	2.5	1.9	1.8	28.5	
1988	273		2.3		1.9	1.9	2.5	2.8	3.2	3.1	2.8	2.4	2.2	1.7	28.3	
1989	276	404	1.7		2.0	2.0	2.1	2.2	2.8	2.8	2.2	2.1	2.0	2.2	26.0	
1990	278	194	1.8	1.9	1.9	2.0	2.3	2.6	3.0	3.1	2.8	2.3	2.2	2.5	28.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAPI	TA WATE	R USE (gpcd)/3					ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.08	533							169	157	131	109	113	115		
1980	2.08	532	109		109	119	127	144	170	127	132	164	107	103	127	0.14
									170		164	140	107	110	132	
1982	2.04	528	110		110	114	153	145		171				110		0.14
1983	2.02	531	109		116	119	182	188	190	201	187	148	113		148	0.16
1984	2.00	533	115		127	150	127	156	218	206	144	103	106	97	139	0.15
1985	1.97	531	109		121	126	134	144	182	164	126	134	163	134	139	0.15
1986	1.95	527	135		141	152	153	190	208	159	126	141	133	135	151	0.16
1987	1.93	523	124		130	131	165	186	184	187	172	155	119	109	149	0.16
1988	1.91	521	140		116	120	152	181	195	193	178	146	137	108	149	0.16
1989	1.89	521	108		127	127	128	138	173	172	143	132	131	136	137	0.15
1990	1.87	519	113	129	117	127	145	164	184	190	179	145	143	155	149	0.16
															445	

^{1/} Number of services

117 120 121 128 147 164 185 175 153 138 125 118 142 0.159

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually 5/Missing data unavailable

COUNTY	HUMBOLDT		1	HATER A	GENCY		ARCATA,	CITY OF			(RIGIN C	OF WATER	(in p	ercent):	
CITY	ARCATA			TYPE OF	AGENCY.		UNICIPA	L WATER	DEPART	MENT						
SYSTEM #			12001									SURFAC	CE WATER	2	0	
HYDROLOG	IC REGION	1	NORTH C	DAST		SYSTEM	SERVES	S:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	COASTAL													
DAU #			32		ENTI	RE CITY	ſ									- 10
					ENTI	RE CITY	PLUS C	NTSIDE.		X		SOURCE (OF WATER	(in p	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
1980		12,850			OTHE	R						PURCH	ASED		100	
1990		15,197										SELF S	SUPPLIE	· · · · · ·	0	
				:	SERVICE	CONNECT	TIONS /	/1								
RESIDENT	IAL:			COMMERC	IAL:		1	NDUSTR 1	AL:			COVERNME	ENTAL:			
Metere	d	4,426		Meter	ed	403		Metere	d	10		Meter	ed	25		
Flat R	ate	0		Flat I	Rate	0		Flat R	ate	0		Flat I	Rate	0		Year
YEAR	ACTIVE	SERVICE				OTAL W	TED IN	IN SYSTE	M (MILL	ION GAL	LONS					
OF		TIONS /2			,	UINE W	IN	01016	er small	wil						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,114	3,636	55.0	51.7	53.7	55.3	59.4	67.2	76.0	66.6	63.7	66.2	59.1	55.9	729.9	
1981	4,524	3,772	57.7	54.1	46.2	51.5	58.1	57.6	66.8	62.9	54.8	52.4	51.7	49.8	663.6	
1982	4,458	3,836	53.5	35.4	53.5	56.5	69.0	64.2	62.9	60.5	46.1	50.1	49.0	46.0	646.5	
1983	4,392	3,901	47.5	40.7	43.0	41.4	45.2	48.6	50.7	55.2	48.5	54.5	49.1	42.1	566.7	
1984	4,326	3,965	44.0	42.1	42.7	37.7	44.0	44.4	56.7	56.1	50.6	53.0	46.6	44.1	562.0	
1985	4,260	4,029	43.5	36.6	34.1	37.3	47.4	47.8	55.5	59.2	47.8	55.5	52.3	43.5	560.3	
1986	4,705	4,459	50.0	45.1	48.9	49.9	53.5	54.6	66.2	61.2	48.9	55.9	56.9	56.8	647.7	
1987	4,469	4,223	52.2	52.9	51.5	49.9	57.5	60.5	62.7	69.7	58.7	56.7	46.5	41.5	660.1	
1988	4,356	4,134	45.1	50.4	42.6	63.5	65.8	63.6	85.1	80.7	76.5	72.0	63.6	62.2	771.0	
1989	4,705	4,244	67.2	61.5	61.3	67.8	67.6	73.5	84.0	88.1	82.3	80.3	70.8	69.2	873.6	
1990	4,900	4,450	71.7	66.3	72.9	72.3	77.4	74.6	83.0	85.4	85.0	81:7	72.3	72.2	914.7	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USF	(gpcd)/3	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
4000	······	4/ 570	422	427	446	427	472	45/	169	148	146	147	136	124	138	0.154
1980	3.53	14,539	122	123 121	119 93	127 108	132 118	154 121	135	127	115	106	108	101	114	0.12
1981	3.52	15,934	117	121 81	110	120	142	137	130	127	98	103	104	95	113	0.12
1982 1983	3.51	15,649	110	81 95	90	90	95	105	106	116	105	115	107	88	101	0.12
1983	3.50 3.49	15,365 15,083	94	96	90	83	94	98	121	120	112	113	107	94	102	0.114
1984	3.47	14,802	95	88	74	84	103	108	121	129	108	121	118	95	102	0.116
1985	3.46	•	99 27	99	97	102	105	112	131	121	100	111	116	112	109	0.12
1987	3.45	16,292 15,421	109	123	108	102	120	131	131	146	127	119	100	87	117	0.131
1988	3.44	14,980	97	116	92	141	142	141	183	174	170	155	141	134	141	0.158
1989	3.43	16,124	134	136	123	140	135	152	168	176	170	161	146	138	148	0.16
1999	3.42		138	141	140	144	149	149	160	165	169	158	144	139	150	0.168
1770	3.42	16,734	130	141	140	144	149	147	100	103	107	130	144	137	130	0.100
AVERAGE			111	111	103	113	121	128	141	141	129	128	120	110	122	0.136

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COLINTY	HUMBOLDT			LIATED A	GENCY		EI IDEKA	CITY	e			ODICIN	OF UATE	P (in -	ancent).	
	HUMBOLD				AGENCY					TMENT		OKIGIN	UP WATE	K (IN p	ercent):	
	EUKEKA			TIPE OF	AGENCI		HONICIP	AL WATE	K DEPAK	IMENI		CUREA	CE LIATE		0	
	IC REGION			TOACT		CVCTE	M CEDVE						CE WATE		100	
	SUBAREA					3131E	M SERVE	5:				METER	AND SP	KINGS	100	
	SUBAREA			•	ENT	IRE CIT										
UAU #	********	•••••	. 32			IRE CIT				х		COLIDOE	OF 144 TE	D (in -		
OLTY CEN	ISUS POPUL	ATTON				TION OF				^		SOURCE	OF WATE	K (in p	ercent):	
	ISUS PUPUL											DUDCU	ASED		100	
					Oin	ER							SUPPLIE		0	
1990	•••••	21,025			SERVICE	COMMEC	TIONE	/1				SELF	SUPPLIE	U	U	
CCIDENT	TAL			COMMERC		CONNEC			TAI .			CON/EDNIN	ENTAL .			
RESIDENT		e 0F0				4 4/7		INDUSTR		N /A		GOVERNM		11.40		
	d				ed	•			ed				ed	N/A O		
Flat K	ate	U		Flat	Rate	U		Flat	Rate	U		Flat	Rate	U		
YEAR	ACTIVE	SERVICE				TOTAL W	ATED TH	TO SYST	EM /MTI	LION CA	110057					
OF		TIONS /2				TOTAL M	HIEK IN	10 3131	ma (MIL	TON DA	rro42)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	313121		unn	1.0	1841											
1980	8,835	8,777	109.1	95.9	103.9	102.3	116.6	131.4	167.4	157.0	150.1	129.1	110.2	114.3	1487.3	
1981	8,948	8,896	111.1	100.9					167.9		139.1	124.9	106.6	108.1	1502.7	
1982	9,061	9,014	104.2	91.9			140.7			157.1		111.7	99.1	100.6	1433.4	
1983	9,175	9,133	103.3	94.1	105.8	106.4		147.0			115.7		98.3	97.5	1401.6	
1984	9,288	9,251	103.0	87.5	95.1	92.2	107.5	122.6	152.7	143.8	120.9	100.6	90.9	91.2	1308.0	
1985	9,401	9,370	94.7	87.6	96.4		122.2					108.6		103.7		
1986	9,464	9,431	99.6	89.8	101.7			139.3			117.7	98.5	96.6	98.3	1381.2	
1987	9,288	9,250	95.3	88.2	99.3			146.3	156.4	150.7		118.4	97.8		1408.9	
1988	9, 174	9,141	95.7	89.5	97.2	101.9		118.0	153.1	149.5	126.3	109.3	95.5	101.6	1353.9	
1989	9,277	9,244	100.3	90.4	96.9	101.3	108.1	128.8	155.4		125.0	121.4	109.3		1397.1	
1990	9,193	9,160	106.6		108.8											
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.75	24,313	145	136	138	140	155	180	222	208	206	171	151	152	168	0.18
1981	2.77	24,801	145	145	145	149	160	191	218	204	187	162	143	141	166	0.18
1982	2.79	25,294	133	130	135	138	179	187	194	200	162	142	131	128	155	0.17
1983	2.81	25,795	129	130	132	137	146	190	188	187	150	146	127	122	149	0.16
1984	2.83	26,297	126	115	117	117	132	155	187	176	153	123	115	112	136	0.15
1985	2.85	26,803	114	117	116	118	147	154	182	165	132	131	125	125	136	0.15
1986	2.87	27,171	118	118	121	127	150	171	193	175	144	117	119	117	139	0.15
1987	2.89	26,850	114	117	119	135	153	182	188	181	157	142	121	113	144	0.16
1988	2.91	26,702	116	116	117	127	140	147	185	181	158	132	119	123	139	0.15
1989	2.93	27,186	119	119	115	124	128	158	184	180	153	144	134	129	141	0.15
1990	2.95	27,122	127	126	129	134	134	153	190	175	158	135	125	134	144	0.16
AVERAGE			126	124	126	131	148	170	194	185	160	141	128	127	147	0.16

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	HUMBOLDT			WATER A	GENCY		HUMBOLD'	T COMMU	NITY SE	RVICES E	IST.	ORIGIN (OF WATER	(in p	ercent):	
CITY	CUTTEN				AGENCY.											
SYSTEM #			12009									SURFA	CE WATER	2	0	
				OAST		SYSTE	4 SERVES	S:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	COASTAL													
			32		ENTI	RE CIT	·									
					ENTI	RE CIT	PLUS (OUTSIDE				SOURCE (OF WATER	(in p	ercent):	
ESTIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	τγ								
	ACTIVE SERVICE CONNECTIONS /2 SYSTEM CITY 3,997 3,997 4,055 4,055 4,926 4,926 4,990 4,990 5,093 5,093 5,191 5,191 5,302 5,302 5,414 5,414 5,545 5,545 5,680 5,680 5,777 5,777 PERSONS AVERAGE PER POPULA- CONNEC- TION TION SERVED 3.10 12,390 3.07 12,443								х		PURCH	ASED		100		
													SUPPLIE		0	
.,,,,,,		,			SERVICE	CONNECT	TIONS	/1							•	
RESIDENT	TAL:			COMMERC				INDUSTR	TAL:			GOVERNM	FNTAL:			
		5 584			ed	216			ed	5			ed	1		
					Rate	0			Rate	ō			Rate	Ö		
I car k		•		, , ,		•		, , ,		•				•		
YEAR OF					1	TOTAL W	ATER IN	TO SYST	EM (MILI	LION GAI	LONS)					
RECORD			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
			(2.6	70 /	/7.0		// 7		FA 7			/F 5		40.6	FF (/	
1980		•	42.0	39.6	43.0	44.2	44.3	49.0	58.7	55.2	52.2	45.2	40.4	40.8	554.6	
1981		•	/5	-	-		-	40.0	-		-			10.0	400 7	
1982		•	43.3	45.6	50.1	50.1	62.1	69.8	69.2	72.6	63.9	53.8	50.4	49.8	680.7	
1983		•	53.3	47.7	48.8	53.3	60.8	69.1	65.1	78.9	62.6	60.7	58.6	61.4	720.3	
1984			65.6	54.4	78.3	57.1	61.7	64.3	86.7	80.7	71.0	59.6	56.3	60.1	795.8	
1985		•	59.2	52.8	58.6	55.4	70.2	72.9	82.1	73.2	61.8	59.1	60.6	54.3	760.2	
1986	•		60.1	52.1	59.7	57.8	63.6	80.2	90.3	91.8	65.4	62.9	63.4	61.1	808.4	
1987		•	63.2	63.9	61.2	67.1	80.3	83.8	89.5	89.6	78.1	73.4	69.8	68.7	888.6	
1988			72.7	59.6	70.4	63.5	75.0	70.5	97.5	88.4	80.4	71.3	64.9	69.8	884.0	
1989	•		76.7	69.4	74.0	77.0	70.6	75.9	88.1	97.9	82.6	81.5	75.6	72.1	941.4	
1990	5,777	5,777	81.3	68.6	73.9	78.6	85.6	83.4	107.2	98.9	91.9	79.4	73.4	76.1	998.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				- 1	PER CAP	ITA WAT	ER USE	(gpcd)/3	3			-	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD		SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980		12,390	109	110	112	119	115	132	153	144	140	118	109	106	123	0.137
1981	3.07	12,443		-	-	-	-	-	-	-	-	-	-	-	-	-
1982	3.04	14,962	93	109	108	112	134	156	149	157	142	116	112	107	125	0.140
1983	3.01	15,001	115	114	105	118	131	154	140	170	139	131	130	132	132	0.147
1984	2.98	15,152	140	124	167	126	131	141	185	172	156	127	124	128	144	0.161
1985	2.94	15,282	125	123	124	121	148	159	173	155	135	125	132	115	136	0.153
1986	2.91	15,443	126	120	125	125	133	173	189	192	141	131	137	128	143	0.161
1987	2.88	15,601	131	146	127	143	166	179	185	185	167	152	149	142	156	0.175
1988	2.85	15,805	148	130	144	134	153	149	199	180	170	146	137	142	153	0.172
1989	2.82	16,013	155	155	149	160	142	158	177	197	172	164	157	145	161	0.180
1990	2.79	16,106	163	152	148	163	171	173	215	198	190	159	152	152	170	0.190
AVERAGE			130	128	131	132	143	157	176	175	155	137	134	130	144	0.162
MAEKWOE			130	120	131	132	143	157	170	113	133	13/	134	130	144	0. 102

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data unavailable

COUNTY	MENDOCINO		1	HATER AC	ENCY		UKIAH,	CITY OF				ORIGIN C	F WATER	(in p	ercent):	
CITY	HATAU			TYPE OF	AGENCY.		MUNICIF	AL WATE	R DEPAR	THENT						
SYSTEM #			23003									SURFAC	E WATER	·	38	
	IC REGION			DAST		SYSTE	M SERVE	S:				WELLS	AND SPE	RINGS	62	
	SUBAREA															
					ENTI	RE CIT	Y									
								OUTSIDE		x		SOURCE (OF WATER	(in p	ercent):	
	ISUS POPUL							ΙΤΥ								
					OTHE	R	•••••	• • • • • • • •	• • • • • • •				ASED		0	
1990		14,599										SELF S	SUPPLIE	0	100	
					SERVICE	CONNEC	TIONS									
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNME				
Metere	d	4,133		Meter	ed	282		Meter	ed	100		Meter	ed	NA		
Flat R	ate	1,710		Flat I	Rate	0		Flat	Rate	0		Flat i	Rate	NA		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER II	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,423	5,317	49.0	49.0	55.0	67.0	107.0	127.0	160.0	169.0	89.0	81.0	60.0	55.0	1068.0	
1981	5,484	5,378	54.0	45.0	51.0	78.0	105.0	150.0	166.0	157.0	113.0	64.0	54.0	55.0	1092.0	
1982	5,491	5,473	55.0	45.0	52.0	53.0	136.0	127.0	150.0	149.0	101.0	74.0	52.0	54.0	1048.0	
1983	5,462	5,443	52.0	47.0	55.0	54.0	91.0	141.0	150.0	144.0	111.0	83.0	51.0	52.0	1031.0	
1984	5,518	5,495	54.0	48.0	57.0	66.0	118.0		183.0	158.0	136.0	109.0	46.0	57.0	1175.0	
1985	5,642	5,620	55.0	50.0	57.0	94.0		142.0	157.0	152.0	87.0	79.0	46.0		1087.0	
1986	5,753	5,732	48.0	42.0	49.0	69.0	98.0		160.0	151.0	91.0	78.0	65.0		1050.0	
1987	5,813	5,792	59.0	64.0	61.0			144.0	148.0	147.0	122.0	93.0	55.0		1166.0	
	5,873	5,852	53.0	53.0	78.0	76.0	107.0		155.0	144.0	124.0	93.0	58.0		1119.0	
1988		5,945	56.0	46.0	50.0			137.0	160.0	163.0	115.0	82.0	60.0		1096.0	
1989	5,966							131.0		160.0	123.0	99.0	70.0		1198.0	
1990	6,078	6,057	58.0	53.0	64.0	95.0	112.0	131.0	100.0	100.0	123.0	99.0	70.0	67.0	1190.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpci
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	2.26	12,275	129	138	145	182	281	345	420	444	242	213	163	145	238	0.267
1981	2.28	12,493	139	129	132	208	271	400	429	405	301	165	144	142	239	0.268
1982	2.29	12,590	141	128	133	140	348	336	384	382	267	190	138	138	228	0.255
1983	2.31	12,604	133	133	141	143	233	373	384	369	294	212	135	133	224	0.251
1984	2.32	12,814	136	129	143	172	297	372	461	398	354	274	120	143	251	0.281
1985	2.34	13,185	135	135	139	238	284	359	384	372	220	193	116	127	226	0.253
1986	2.35	13,529	114	111	117	170	234		382	360	224	186	160	145	213	0.238
1987	2.37	13,755	138	166	143	228	293		347	345	296	218	133	127	232	0.260
1988	2.38	13,783	122	131	180	181	247		358	332	296	215	138	127	219	0.246
1989		14,292	126	115	113	145	235		361	368	268	185	140	138	210	0.235
1990		14,650	128	129	141	216	247		366	352	280	218	159	148	224	0.251
											mar 1		444	470	220	0.255

^{1/} Number of services

276 206 141 138 228 0.255

131 131 139 184 270 344 389 375

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capite annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY				WATER A						TANTAL T		ORIGIN (OF WATER	(in p	ercent):	
	HEALDSBUR			TIPE OF	AGENCY.		ONICIPA	AL MATE	K DEPAKI	MENI		CUDEA	E WATER		100	
				OAST		CVCTE	SERVES						AND SPR		0	
		#				31316	SERVES	•				MELLS	ANU SPI	1NG5	U	
			35	RIVER	ENT	DE CITY	·									
DAU #			33				PLUS (х		collect (SE LIATER	/in m	ercent):	
CITY CEN	SUS POPUL	ATTON					THE CIT			^		SUURCE (N WATER	(in p	ercent):	
												DUDCH	ASED		0	
		•			OTHE		• • • • • •	• • • • • • •	• • • • • • •				SUPPLIED		100	
1990		7,407			SERVICE	CONNECT	TIONS	/1				SELF .	SOPPLIEL		100	
RESIDENT	TAL .			COMMERC		COMMEC		INDUSTR	TAL .			GOVERNM	ENTAL .			
	d	2,996			ed	448			ed	NA			ed	220	65.	
	ate	•			Rate	0			Rate	NA			Rate	0		
riat Ki	ate	U		rtat	Kate	v		rtet	Kate	MA.		rtat	cate	U		0
YEAR	ACTIVE				1	TOTAL W	ATER IN	TO SYST	EM (MILL	ION GAL	LONS)					
OF		TIONS /2						-	1							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	3,000	3,000	37.0	32.0	38.0	57.0	80.0	53.0	76.0	84.0	72.0	64.0	51.0	36.0	680.0	
1981	3,050	3,050	45.0	39.0	34.0	53.0	63.0	99.0	84.0	86.0	59.0	45.0	40.0	41.0	688.0	91
1982	3,100	3,100	34.0	35.0	35.0	40.0	81.0	79.0	84.0	87.0	62.0	56.0	34.0	31.0	658.0	
1983	3,250	3,250	41.0	32.0	38.0	44.0	54.0	76.0	97.0	76.0	62.0	62.0	45.0	33.0	660.0	
1984	3,395	3,395	43.0	40.0	43.0	53.0	76.0	91.0	93.0	86.0	68.0	58.0	40.0	37.0	728.0	
1985	3,450	3,450	46.0	40.0	41.0	51.0	89.0	78.0	89.0	82.0	65.0	62.0	37.0	24.0	704.0	
1986	3,500	3,500	31.0	36.0	43.0	48.0	70.0	82.0	93.0	83.0	68.0	57.0	44.0	55.0	710.0	
1987	3,700	3,700	44.0	38.0	43.0	61.0	79.0	94.0	97.0	93.0	81.0	65.0	44.0	42.0	781.0	
1988	3,850	3,850	41.0	49.0	59.0	64.0	69.0	80.0	89.0	93.0	82.0	60.0	40.0	42.0	768.0	
1989	3,950	3,950	43.0	42.0	44.0	53.0	81.0	88.0	101.0	90.0	73.0	56.0	45.0	38.0	754.0	
1990	4,025	3,951	50.0	48.0	52.0	91.0	86.0	97.0	103.0	88.0	88.0	74.0	57.0	49.0	883.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	ITA WAT	ER USE	(gpcd)/3	3			4	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.41	7,217	165	153	170	263	358	245	340	375	333	286	236	161	258	0.289
1981	2.40	7,335	198	190	150	241	277	450	369	378	268	198	182	180	257	0.288
1982	2.40	7,452	147	168	152	179	351	353	364	377	277	242	152	134	242	0.271
1983	2.40	7,810	169	146	157	188	223	324	401	314	265	256	192	136	232	0.259
1984	2.40	8,155	170	169	170	217	301	372	368	340	278	229	164	146	245	0.274
1985	2.40	8,284	179	172	160	205	347	314	347	319	262	241	149	93	233	0.261
1986	2.40	8,401	119	153	165	190	269	325	357	319	270	219	175	211	232	0.259
1987	2.40	8,878	160	153	156	229	287	353	352	338	304	236	165	153	241	0.270
1988	2.40	9,234	143	183	206	231	241	289	311	325	296	210	144	147	228	0.255
1989	2.40	9,470	146	158	150	187	276	310	344	307	257	191	158	129	218	0.244
1990	2.40	9,646	167	178	174	314	288	335	344	294	304	247	197	164	251	0.281

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SONOMA				AGENCY							ORIGIN	OF WATE	R (in p	ercent):	
CITY	ROHNERT P	ARK		TYPE O	F AGENCY		MUNICI	PAL WATE	R DEPAR	THENT						
													CE WATE		60	
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	40	
PLANNING	SUBAREA	#	RUSSIAN	RIVER												
DAU #	•••••	• • • • • • • • • • • • • • • • • • • •	36							Х						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL							ΤΥ								
	•••••	•			OIM	EK	• • • • • •	•••••	• • • • • • •				ASED		60	
1990	•••••	30,320										SELF	SUPPLIE	D	40	
					SERVICE	CONNEC	TIONS									
RESIDENT		7/0		COMMERC		407		INDUSTR				GOVERNM		-		
	d				red	407			ed	4			ed	_		
Flat R	ate	7,215		Flat	Rate	29		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5.011	5,011	64.0	61.0	74.0	94.0	120 0	161.0	183.0	160.0	136.0	108.0	95.0	72 0	1337.0	
1981	5,230	5,230	70.0	67.0	69.0	107.0	159.0		191.0			104.0	69.0		1423.0	
1982	5,511	5,511	73.0	70.0	75.0	89.0	156.0	160.0	176.0	178.0	141.0	118.0	78.0		1389.0	
1983	5,860	5.860	80.0	70.0	76.0	86.0	122.0	178.0	185.0	192.0	156.0	128.0	71.0	89.0	1433.0	
1984	6,203	6.203	85.0	77.0	96.0	164.0	180.0	207.0	207.0	196.0	181.0	119.0	93.0	93.0	1698.0	
1985	6,257	6,257	95.0	85.0	142.0	144.0	183.0	205.0	211.0		156.0	131.0	84.0	, , , ,	1716.0	
1986	6.882	6.882	99.0	87.0	99.0	151.0	186.0	203.0	202.0	154.0	103.0	85.0	73.0	96.0	1538.0	
1987	6.896	6.896	112.0	94.0	131.0	170.0	214.0	235.0	256.0		205.0	173.0	107.0	103.0	2045.0	
1988	6,909	6,909	105.0	113.0	151.0	162.0	182.0	212.0	270.0	235.0	193.0	159.0	116.0	114.0	2012.0	
1989	7,375	7,375	112.0	98.0	115.0	146.0	208.0		271.0		190.0	151.0		117.0		
1990	7,452	7,452	120.0	108.0				196.0						132.0		
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAI	PITA WAT	ER USE	(gpcd)/	3			1	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.58	22,965	90	92	104	136	181	234	257	225	197	152	138	101	160	0.179
1981	4.61	24,121	94	99	92	148	213	278	255	227	200	139	95	95	162	0.181
1982	4.64	25,578	92	98	95	116	197	209	222	224	184	149	102	95	149	0.167
1983	4.67	27,369	94	91	90	105	144	217	218	226	190	151	86	105	143	0.161
1984	4.70	29,152	94	91	106	188	199	237	229	217	207	132	106	103	160	0.179
1985	4.73	29,588	104	103	155	162	200	231	230	207	176	143	95	98	159	0.178
1986	4.76	32,744	98	95	98	154	183	207	199	152	105	84	74	95	129	0.144
1987	4.79	33,012	109	102	128	172	209	237	250	239	207	169	108	101	170	0.190
1988	4.82	33,276	102	117	146	162	176	212	262	228	193	154	116	111	166	0.186
1989	4.85	35,735	101	98	104	136	188	216	245	228	177	136	118	106	155	0.173
1707																

^{1/} Number of services

99 99 112 148 186 223 237 218 187 145 107 102 156 0.174

^{2/} Excludes services for agriculture, fire hydrents, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

					orue.		OANES -		TH 67					- 45		
	SONOMA				GENCY					T14511		ORIGIN	OF WATE	R (in p	ercent):	
	SANTA ROS			TYPE OF	AGENCY	• • • • • • • • • • • • • • • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
	ř												CE WATE			
	GIC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
	SUBAREA			RIVER												
DAU #		•••••	36				Υ									
							Y PLUS			х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	AT ION					THE CI									
	• • • • • • • • • • • • • • • • • • • •				ОТН	ER		•••••	•••••				ASED			
1990		113,313										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	35,370		Meter	ed	3,000		Meter	ed	20		Meter	ed	180		
Flat F	Rate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2			***		****									
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	28,998	26,501	278.0	260.0	296.0	334.0	454.0	563.0	616.0	572.0	493.0	427.0	293.0	334.0	4920.0	
1981	29,102	26,566	279.0	261.0	287.0	421.0	510.0	741.0	686.0	650.0	536.0	416.0	316.0	282.0	5385.0	
1982	30,727	28,226	277.0	265.0	318.0	327.0	505.0	619.0	617.0	696.0	503.0	401.0	330.0	292.0	5150.0	
1983	31,135	28,617	309.0	281.0	301.0	299.0	462.0	644.0	658.0	736.0	570.0	458.0	324.0	287.0	5329.0	
1984	32.524	29,986	367.0	309.0	355.0	430.0	630.0	686.0	782.0	726.0	636.0	498.0	360.0	354.0	6133.0	
1985	33,816	31,132	354.0	342.0	349.0	495.0	638.0			687.0	609.0	530.0	365.0	404.0	6357.0	
1986	34,417			322.0			579.0				555.0	521.0			6337.0	
1987	36,290	33,288	377.0	349.0	411.0	594.0	716.0	844.0	836.0	807.0	721.0	605.0	430.0	343.0	7033.0	
1988	36,794		312.0				623.0		802.0	821.0	676.0		395.0			
1989	36,911				380.0						592.0	561.0			6769.0	
1990	37,445				380.0											
	DEBENNS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	FR USF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								(34-0)					gpcd	afpo
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.14	91,171	98	98	105	122	161	206	218	202	180	151	107	118	148	0.16
1981	3.16	91,819	98	102	101	153	179	269	241	228	195	146	115	99	161	0.18
1982	3.17		92	97	105	112	167	212	205	231	172	133	113	97	145	0.16
1983	3.18	98,922	101	101	98	101	151	217	215	240	192	149	109	94	148	0.16
1984		103,694	114	103	110	138	196	221	243	226	204	155	116	110	162	0.18
1985	3.20	108,187	106	113	104	153	190	239	241	205	188	158	112	120	161	0.18
1986		110,490	107	104	106	143	169	238	238	207	167	152	125	128	157	0.17
1987		116,904	104	107	113	169	198	241	231	223	206	167	123	95	165	0.18
1988		118,934	85	136	158	149	169	190	218	223	189	155	111	107	158	0.17
1989	3.24	119,720	117	105	102	128	205	178	242	225	165	151	127	108	155	0.17
1990	3.25	121,866	111	104	101	167	178	184	214	218	198	174	139	130	160	0.179
AVERAGE			103	106	109	139	178	218	228	221	187	154	118	110	156	0.175

^{1/} Number of services Estimated 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

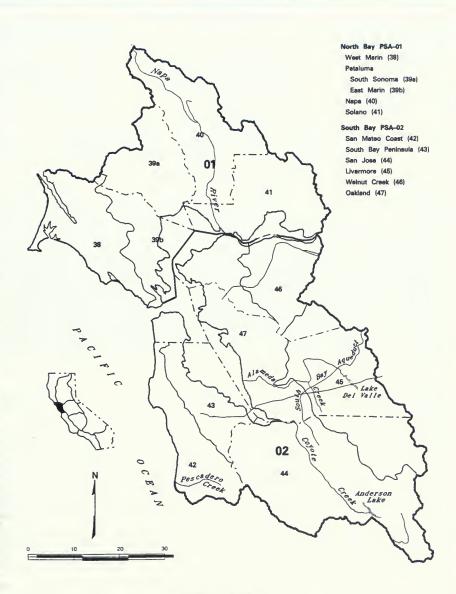
	SONONA				GENCY							ORIGIN (DF WATER	(in pe	ercent):	
	SEBASTOPO	_		TYPE OF	AGENCY.		MUNICIPA	AL WATER	DEPAR	THENT						
		•••••										SURFA	CE WATE	2	0	
		l I				SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
		#		RIVER												
DAU #	•••••	•••••	36					• • • • • • • •								
								DUTS IDE		X		SOURCE (OF WATE	(in pe	ercent):	
	ISUS POPUL							ΓΥ								
					OTHE	R	• • • • • • • •	• • • • • • •	• • • • • • •				ASED		0	
1990	•••••	7,004										SELF S	SUPPLIE		100	
					SERVICE	CONNEC										
RESIDENT		4 007		COMMERC		700		INDUSTRI		***		GOVERNME				
	d				ed	390			ed	NA			ed	47		
Flat R	ate	. 0		Flat	Rate	0		Flat I	late	NA		Flat I	Rate	0		
YEAR		SERVICE			1	TOTAL W	ATER IN	TO SYSTE	M (MILI	ION GAL	LONS)					
OF		TIONS /2		550	MAD	400	****			****						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,024	1,989	15.0	16.0	20.0	20.0	27.0	38.0	31.0	30.0	34.0	24.0	22.0	23.0	300.0	
1981	2,044	1,998	21.0	18.0	18.0	27.0	43.0	41.0	32.0	34.0	32.0	27.0	26.0	18.0	337.0	
1982	2,054	2,018	18.0	17.0	23.0	18.0	36.0	31.0	44.0	45.0	32.0	28.0	24.0	17.0	333.0	
1983	2,066	2,020	22.0	17.0	17.0	24.0	24.0	35.0	34.0	41.0	26.0	29.0	16.0	15.0	300.0	
1984	2,081	2,037	18.0	16.0	17.0	24.0	30.0	31.0	50.0	41.0	34.0	30.0	22.0	23.0	336.0	
1985	2,117	2,073	17.0	21.0	19.0	27.0	28.0	35.0	47.0	38.0	35.0	29.0	22.0	24.0	342.0	
1986	2,123	2,077	18.0	19.0	25.0	25.0	32.0	51.0	40.0	48.0	31.0	28.0	24.0	27.0	368.0	
1987	2,289	2,242	21.0	23.0	22.0	29.0	39.0	49.0	42.0	52.0	40.0	34.0	28.0	20.0	399.0	
1988	2,323	2,278	24.0	22.0	26.0	31.0	37.0	37.0	43.0	49.0	37.0	39.0	22.0	24.0	391.0	
1989	2,358	2,314	20.0	20.0	20.0	28.0	34.0	41.0	53.0	45.0	35.0	35.0	23.0	24.0	378.0	
1990	2,392	2,350	26.0	22.0	21.0	36.0	37.0	34.0	53.0	40.0	39.0	43.0	28.0	30.0	409.0	
	DEDGONG	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	LTA WATE	R USE	(apped)/3	3				UNICALLY	
OF	CONNEC-	TION								. Specify 1					gpcd	afpc
RECORD	TION	SERVED	MAL	FE8	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.81	5,693	85	97	113	117	153	222	176	170	199	136	129	130	144	0.162
1981	2.83	5,784	117	111	100	156	240	236	178	190	184	151	150	100	160	0.179
1982	2.85	5,847	99	104	127	103	199	177	243	248	182	154	137	94	156	0.175
1983	2.86	5,915	120	103	93	135	131	197	185	224	147	158	90	82	139	0.156
1984	2.88	5,993	97	92	92	133	161	172	269	221	189	161	122	124	154	0.172
1985	2.90	6,132	89	122	100	147	147	190	247	200	190	153	120	126	153	0.171
1986	2.91	6,185	94	110	130	135	167	275	209	250	167	146	129	141	163	0.183
1987	2.93	6,707	101	122	106	144	188	244	202	250	199	164	139	96	163	0.183
1988	2.95	6,846	113	111	123	151	174	180	203	231	180	184	107	113	156	0.175
1989	2.96	6,988	92	102	92	134	157	196	245	208	167	162	110	111	148	0.166
1990	2.98	7,129	118	110	95	168	167	159	240	181	182	195	131	136	157	0.176
AVERAGE			102	108	106	138	171	204	218	216	181	160	124	114	154	0.172

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually





PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

Table A-4. San Francisco Region Water Production and Per Capita Water Use

COUNTY	SONOMA			WATER A								ORIGIN	OF WATE	(in p	ercent):	
CITY	PETALUMA			TYPE OF	AGENCY		MUNICIP	AL WATER	DEPAR	THENT						
SYSTEM #			49006									SURFA	CE WATE	₹	97	
HYDROLOG	IC REGION		SAN FRA	NCISCO I	BAY	SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	3	
PLANN ING	SUBAREA :	#	NORTH B	AY												
DAU #			39A		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE.		х		SOURCE	OF WATER	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		33,834			ОТН	ER						PURCH	ASED		97	
												SELF	SUPPLIE	D	3	
					SERVI CE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	12,950		Meter	ed	1,149		Heter	ed	36		Meter	ed	127		
	ate				Rate	•			Rate	0			Rate	0		
I tot k	0.0					·				•						
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	11,168	10,636			121 0	141 0	186.0	217 0	234 0	227.0	195.0	164.0	138.0	120.0	1958.0	
1981	11,405	10,831											115.0			
	•	11,004														
1982	11,542	11,133														
1983	11,663															
1984	12,034	11,504														
1985	12,339	11,803														
1986	12,692	12,151														
1987	13,210	12,665														
1988	13,704	13,154														
1989	,	13,751										-				
1990	14,572	14,013	157.0	136.0	100.0	219.0	200.0	287.0	332.0	322.0	293.0	200.0	ט.כעו	177.0	2800.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TAW ATT	er use	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.18	35,526	102	100	110	132	169	204	212	206	183	149	129	109	151	0.169
1981	3.17	36,167	101	101	103	146	189	251	233	219	186	132	106	103	156	0.175
1982	3.16	36,487	107	104	103	114	187	198	218	215	183	147	107	103	149	0.167
1983	3.15	36,753	100	101	102	112	150	212	237	218	193	154	109	108	150	0.168
1984	3.14	37,803	108	107	119	141	204	231	249	230	215	142	112	109	165	0.184
1985	3.13	38,638	109	115	116	151	200	242	242	227	179	164	125	112	165	0.185
1986	3.12	39,618	107	110	116	151	197	234	249	234	171	154	148	119	166	0.186
1987	3.11	41,103	111	111	115	174	217	234	243	236	217	173	118	114	172	0.193
1988	3.10	42,504	111	122	155	162	182	209	242	222	209	168	119	115	169	0.189
1989	3.09	44,232	108		106	138	186	226	246	231	178	142	128	117	160	0.179
1990	3.08	44,907	113		119	163	184	213	238	231	217	187	145	127	171	0.191
AVEDACS.		•	107	108	115	144	188	223	237	224	194	156	122	112	161	0.181
AVERAGE											174	120	122			

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SONOHA			MATER A	GENCY		SONOMA	, CITY OF			(ORIGIN C	F WATER	(in pe	ercent):	
CITY	SONOMA			TYPE OF	AGENCY.		UNICI	PAL WATER	DEPAR	THENT						
SYSTEM #			49012									SURFAC	E WATER	2	100	
				NCISCO I	BAY	SYSTE	SERV	ES:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	NORTH B	AY												
DAU #			39A		ENTI	RE CIT	·									
					ENTI	RE CITY	PLUS	OUTSIDE.		X		SOURCE (F WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION			POR1	ION OF	THE C	ITY								
1980		6,054			OTHE	R						PURCH/	SED		100	
1990		8,121										SELF S	SUPPLIE		0	
				:	SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	d	2,790		Meter	ed	315		Meter	d	NA		Meter	d	55		
Flat R	ate	0		Flat I	Rate	0		Flat F	ate	NA		Flat I	Rate	0		
YEAR	ACTIVE	SERVICE			1	TOTAL W	TER I	NTO SYSTE	M (MIL	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,454	2,165	21.0	20.0	26.0	31.0	45.0	55.0	57.0	54.0	50.0	40.0	26.0	27.0	452.0	
1981	2,499	2,208	22.0	22.0	23.0	37.0	48.0	69.0	63.0	60.0	50.0	34.0	27.0	25.0	480.0	
1982	2,508	2,217	24.0	24.0	25.0	32.0	45.0	59.0	65.0	63.0	46.0	37.0	27.0	26.0	473.0	
1983	2,590	2,298	27.0	24.0	26.0	29.0	44.0	59.0	57.0	66.0	52.0	37.0	28.0	26.0	475.0	
1984	2,713	2,419	29.0	27.0	31.0	39.0	57.0	64.0	75.0	68.0	57.0	47.0	30.0	32.0	556.0	
1985	2,760	2,465	28.0	28.0	30.0	46.0	56.0	70.0	74.0	65.0	57.0	48.0	32.0	34.0	568.0	
1986	2,810	2,513	31.0	28.0	33.0	43.0	55.0	73.0	76.0	81.0	42.0	48.0	40.0	43.0	593.0	
1987	2,852	2,554	33.0	29.0	35.0	53.0	62.0	75.0	76.0	74.0	64.0	53.0	36.0	33.0	623.0	
1988	2,949	2,648	31.0	37.0	49.0	49.0	56.0	64.0	74.0	78.0	66.0	55.0	39.0	39.0	637.0	
1989	3,067	2,764	39.0	34.0	33.0	43.0	69.0	72.0	86.0	80.0	60.0	60.0	48.0	40.0	664.0	
1990	3,125	2,820	40.0	33.0	37.0	56.0	63.0	61.0	84.0	71.0	65.0	73.0	48.0	42.0	673.0	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-				1	PER CA	PITA WATE	R USE	(apperl) /	3			-	UNNUALLY	
OF	CONNEC-	TION								- Spr / / .					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14

1980	2.80	6,862	99	101	122	151	212	267	268	254	243	188	126	127	180	0.202
1981	2.80	7,009	101	112	106	176	221	328	290	276	238	156	128	115	188	0.210
1982	2.81	7,055	110	121	114	151	206		297	288	217	169	128	119	184	0.206
1983	2.82	7,307	119	117	115	132	194	269	252	291	237	163	128	115	178	0.199
1984	2.83	7,677	122	121	130	169	240	-	315	286	247	197	130	134	198	0.222
1985	2.84	7.833	115	128	124	196	231	298	305	268	243	198	136	140	199	0.223
1986	2.85	7,998	125	125	133	179	222		307	327	175	194	167	173	203	0.227
1987	2.85	8,142	131	127	139	217	246		301	293	262	210	147	131	210	0.235
1707	2.86	8,443	118	151	187	193	214		283	298	261	210	154	149	207	0.232
1088																
1988 1989	2.87	8,807	143	138	121	163	253		315	293	227	220	182	147	207	0.231

^{1/} Number of services

121 125 129 176 224 280 294 284 236 197 146 136 196 0.220

^{2/} Excludes services for agriculture, fire hydrents, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capite annually

	SONOMA BOYES SPR	THEE			GENCY AGENCY.						RICT	ORIGIN	OF WATER	(in p	ercent):	
		11162		ITPE OF	AGENCY .		OBLIC	MIEK U	ISIKICI			CIDEA	CE WATER		100	
				NCISCO I	RAY	SYSTE	SERVE						AND SPE		0	
		#			DITT.	31310	1 DERVE	٠.				MELLES	MILD SPI	CINGS		
				n1	ENTI	DE CIT	,									
UNU W			J/K									SUI IBUE	OF WATER	/in n	eccent\.	
CITY CEN	SUS POPUL	ATTON				ION OF						SOURCE	OF MATER	(in pe	rcent):	
	SUS PUPUL									х		DI IDOI	IACED.		100	
		•			UINE	K				×			ASED			
1990	•••••	15,300			SERVICE	CONNECT	TONE	/4				SELF	SUPPLIED		0	
RESIDENT	TAI -			COMMERC		COMMEC		INDUSTR	TAI -			GOVERNI	ENTAL .			
	d	6,402			ed	194			ed	NA			ed	NA		
	ate				Rate	5			Rate	NA			Rate	NA		
YEAR	ACTIVE				T	OTAL W	TER IN	TO SYST	EM (MIL	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	5.008	5,008	35.0	33.0	37.0	55.0	69.0	99.0	81.0	73.0	70.0	57.0	39.0	43.0	691.0	
1981	5,008	5,008	34.0	30.0	31.0	39.0	59.0	80.0	94.0	81.0	71.0	51.0	33.0	34.0	637.0	
			33.0		20.0	26.0										
1982	5,089	5,089		29.0			44.0	61.0	95.0	90.0	75.0	60.0	40.0	40.0	613.0	
1983	5,200	5,200	40.0	35.0	25.0	30.0	50.0	65.0	95.0	90.0	75.0	60.0	40.0	40.0	645.0	
1984	5,231	5,231	45.8	40.2	46.1	54.4	78.0	85.7		93.5	77.9	64.0	47.3	47.4	781.2	
1985	5,419	5,419	46.0	44.0	44.0	53.0	77.0	97.0	100.0	89.0	80.0	71.0	46.0	52.0	799.0	
1986	5,244	5,244	47.3	43.6	46.2	60.4	76.3	102.3	106.0	95.7	84.6	70.8	57.8	62.0	853.2	
1987	5,580	5,580	49.0	45.0	54.0	76.0	88.0	104.0	103.0	100.0	95.0	80.0	51.0	51.0	896.0	
1988				-				-		-			-	-	-	
1989	6,254	6,254	58.6	51.2	52.9	61.7	53.8	96.7	121.9	116.3	87.8	82.4	67.2	55.1	905.7	
1990	6,464	6,464	63.0	53.0	59.0	86.0	93.0	90.0	115.0	116.0	87.0	82.0	67.0	59.0	970.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	ER CAP	ITA WAT	ER USE	(gpcd)/3	3			-	NNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.80	14,000	81	81	85	131	159	236	187	168	167	131	93	99	135	0.151
1981	2.75	13,785	80	78	73	94	138	193	220	190	172	119	80	80	127	0.142
1982	2.73	13,790	77	75	47	63	103	147	222	211	181	140	97	94	122	0.136
1983	2.67	13,868	93	90	58	72	116	156	221	209	180	140	96	94	127	0.130
1984	2.62	13,727	108	101	108	132	183	208	238	220	189	150	115	111	156	0.175
1985	2.58	13,727	106	112	101	126	178	231	231	205	191	164	110	120		0.175
1986	2.54	13,311	115	117	112	151	185	256	257	232	212	172	145	150	176	0.173
1987		•	113	117	112	182	204	249	239	232	212	185	122	118	176	
	2.50	13,925					204							118		0.197
1988	2.45	45 074	425	424	-	477		244	2/4	-	40/	47/	440		4/5	
1989	2.41	15,071	125	-121	113	137	115	214	261	249	194	176	149	118	165	0.184
1990	2.37	15,300	133	124	124	187	196	196	242	245	190	173	146	124	174	0.195
			103	102	95	128	158	209	232			155	115	111	151	0.170

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/ 1988} data not available

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	MARIN			WATER A							CT	ORIGIN	OF WATE	R (in p	percent):	
CITY	SAN RAFAE	L, ET AL		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRIC	Γ						
SYSTEM #			21002									SURFA	CE WATE	R	. 100	
YDROLOG	IC REGION		SAN FRA	WCISCO	BAY	SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	. 0	
PLANN ING	SUBAREA	#	NORTH E	BAY												
AU #			39B		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE	E			SOURCE	OF WATE	R (in p	percent):	
CITY CEN	SUS POPUL	ATION			POR	TION OI	THE C	ITY								
1980		175,000			OTH	ER		• • • • • •		. х		PURCH	ASED		. 73	
1990		181,000										SELF	SUPPL 1E	D	. 27	
					SERVI CE	CONNEC	CTIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUST	RIAL:			GOVERNM	ENTAL:			
Metere	d	53,081		Meter	ed	3,217		Meter	red	1,048		Meter	ed	300		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL I	MTED II	NTO SYS	TEM /MTI	I TON G	II I ONE)					
OF		TIONS /2				IOIAL I	WILK I	10 313	en (mil	LLION W	accomo)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
															MINUAL	
1980	52,060	52,060	498.0	479.0	552.0	622.0	806.0	999.0	1023.0	1017.0	892.0	839.0	658.0	531.0	8916.0	
1981	52,460	52,460	510.0	457.0	527.0	726.0	957.0	1153.0	1126.0	1084.0	925.0	729.0	551.0	527.0	9272.0	
1982	52,470	52,470	601.0	503.0	576.0	604.0	945.0	998.0	1093.0	1102.0	915.0	812.0	581.0	576.0	9306.0	
1983	52,619	52,619	582.0	504.0	678.0	660.0	832.0	1076.0	1202.0	1161.0	1025.0	838.0	730.0	598.0	9886.0	
1984	52,971	52,971	586.0	544.0	666.0	769.0	1079.0	1153.0	1300.0	1217.0	1105.0	779.0	573.0	581.0	10352.0	
1985	53,301	53,301	605.0	579.0	645.0	823.0	1055.0	1162.0	1261.0	1196.0	996.0	901.0	669.0	631.0	10523.0	
1986	63,462	63,462	616.0	559.0	698.0	811.0	1057.0	1183.0	1270.0	1200.0	933.0	908.0	809.0	636.0	10680.0	
1987	54,327	54,327	598.0	543.0	617.0	896.0	1121.0	1175.0	1241.0	1220.0	1092.0	938.0	642.0	635.0	10718.0	
1988	55,327	55,327	536.0	665.0	872.0	848.0	888.0	958.0	1102.0	978.0	941.0	819.0	608.0	619.0	9834.0	
1989	56,147	56,147	613.0	543.0	526.0	612.0	849.0	1016.0	1165.0	1124.0	901.0	787.0	676.0	648.0	9460.0	
1990	56,765	56,765	615.0	548.0	643.0	780.0	830.0	861.0	1027.0	1010.0	982.0	872.0	677.0	645.0	9490.0	
	DEDEGNE	AVERAGE														
YEAR	PER	POPULA-					DED CA	PITA WA	TED LISE	(ancd)	ß				ANNUALLY	
OF	CONNEC-	TION					TER OF		TER GOL	(Special)	-				gpcd	afpo
ECORD	TION	SERVED	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.36	175,000	92	94	102	118	149	190	189	187	170	155	125	98	140	0.15
1981	3.34	175,437	94	93	97	138	176	219	207	199	176	134	105	97	145	0.16
1982	3.33	174,564	111	103	106	115	175	191	202	204	175	150	111	106	146	0.16
1983	3.31	174,149	108	103	126	126	154	206	223	215	196	155	140	111	156	0.17
1984	3.29	174,398	108	108	123	147	200	220	240	225	211	144	110	107	163	0.18
1985	3.28	174,563	112	118	119	157	195	222	233	221	190	166	128	117	165	0.18
1986	3.26	206,744	96	97	109	131	165	191	198	187	150	142	130	99	142	0.15
1987	3.24	176,045	110	110	113	170	205	222	227	224	207	172	122	116	167	0.18
1988	3.22	178,328	97	129	158	159	161	179	199	177	176	148	114	112	151	0.16
1989	3.21	180,000	110	108	94	113	152	188	209	201	167	141	125	116	144	0.16
1990	3.19	181,000	110	108	115	144	148	159	183	180	181	155	125	115	144	0.16
AVERAGE			104	106	115	138	171	199	210	202	182	151	121	109	151	0.16
			104					.,,,						,		

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

															-	
COUNTY											TRICT	ORIGIN	OF WATE	R (in p	ercent):	
	NOVATO			TYPE OF	AGENCY		PUBLIC	MATER D	ISTRICT							
		• • • • • • • • • • • • • • • • • • • •						_					CE WATE			
		#			BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
DAU #			398		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		49,941			OTH	ER						PURCH	ASED		10	
1990		52,307										SELF	SUPPLIE	D	90	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	14,370		Meter	ed	1,860		Meter	ed	NA		Meter	ed	676		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR OF		SERVICE				TOTAL W	ATER IN	to syst	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	14,495	14,495	135.0	128.0	152.0	181.0	241.0	292.0	318.0	311.0	271.0	228.0	186.0	155.0	2598.0	
1981	14,666	14,666	150.0	139.0	142.0	212.0	290.0	370.0	359.0	335.0	269.0	186.0	147.0	153.0	2752.0	
1982	14,756	14,756	159.0	150.0	154.0	167.0	288.0	300.0	342.0	336.0	273.0	224.0	139.0	155.0	2687.0	
1983	14,837	14,837	155.0	140.0	156.0	164.0	232.0	332.0	373.0	342.0	299.0	225.0	165.0	175.0	2758.0	
1984	14,975	14,975	167.0	157.0	196.0	235.0	334.0	339.0	395.0	369.0	337.0	222.0	160.0	161.0	3072.0	
1985	15,403	15,403	158.0	172.0	176.0	238.0	315.0	374.0	393.0	365.0	293.0	263.0	175.0	160.0	3082.0	
1986	15,727	15,727	159.0	144.0	173.0	234.0	313.0	365.0	397.0	369.0	258.0	258.0	226.0	183.0	3079.0	
1987	16,061	16,061	176.0	158.0	181.0	273.0	351.0	368.0	388.0	390.0	338.0	281.0	179.0	169.0	3252.0	
1988	15,945	15.945	175.0	184.0	256.0	252.0	287.0	327.0	286.0	353.0	323.0	272.0	182.0	176.0	3073.0	
1989	16,481	16,481	173.0	175.0	178.0	227.0	313.0	351.0	406.0	381.0	286.0	248.0	202.0	188.0	3128.0	
1990	16,906	16,906	156.0	117.0	204.0	281.0	303.0	342.0	400.0	392.0	350.0	327.0	232.0	215.0	3319.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								101					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.45	49,941	87	88	98	121	156	195	205	201	181	147	124	100	143	0.160
1981	3.41	50,015	97	99	92	141	187	247	232	216	179	120	98	99	151	0.169
1982	3.38	49,803	103	108	100	112	187	201	222	218	183	145	93	100	148	0.166
1983	3.34	49,555	101	101	102	110	151	223	243	223	201	146	111	114	152	0.171
1984	3.30	49,490	109	109	128	158	218	228	257	241	227	145	108	105	170	0.190
1985	3.27	50,363	101	122	113	158	202	248	252	234	194	168	116	102	168	0.188
1986	3.23	50,870	101	101	110	153	198	239	252	234	169	164	148	116	166	0.186
1987	3.20	51,386	110	110	114	177	220	239	244	245	219	176	116	106	173	0.194
1988	3.16	50,454	112	126	164	166	183	216	183	226	213	174	120	113	167	0.187
1989	3.13	51,571	108	121	111	147	196	227	254	238	185	155	131	118	166	0.186
1990	3.09	52,307	96	80	126	179	187	218	247	242	223	202	148	133	174	0.195
AVERAGE			102	106	114	148	190	225	235	229	198	158	119	110	162	0.181

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	NAPA			WATER A	GENCY		AMERICA	CANYON	COUNTY	Y WATER	DIST.	ORIGIN (OF WATER	(in pe	ercent):	
CITY	AMER I CAN	CANYON		TYPE OF	AGENCY.		PUBLIC V	ATER DI	STRICT							
SYSTEM #	f		28005									SURFA	CE WATER	· · · · · ·	100	
		#			BAY	SYSTE	M SERVES	S:				WELLS	AND SPI	RINGS	0	
			40	• • • •	ENTI	RE CIT	y									
,		•••••	40					CUTSIDE.				SOURCE (DE MATER	(in m	ncent).	
ITY CEN	ISUS POPUL	ATTON						TY				SOURCE (OF WATER	(III pe	ricerit):	
										х		DITOCU	ASED		100	
					OTTL			• • • • • • • •		^			SUPPLIE		0	
1770	********	1,100			SERVICE	CONNEC	ZIONS .	/1				JELF .	SOFFEILE	,	v	
ESIDENT	TAL			COMMERC		COMMEC		INDUSTRI	A1 -			GOVERNM	ENTAL .			
	d	2,209			ed	345	·		d	NA			ed	NA		
	ate	•			Rate	0			ate	NA.			Rate			
rtat K	ate			rtat	Kale	U		rtat	ate	NA.		rtati	Kate	NA		
YEAR OF		SERVICE			1	OTAL W	ATER IN	TO SYSTE	M (MILI	LION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,217	1,217	16.0	16.0	20.0	22.0	32.0	38.0	39.0	35.0	31.0	26.0	22.0	19.0	316.0	
1981	1,222	1,222	19.0	16.0	18.0	27.0	33.0	47.0	41.0	40.0	32.0	23.0	19.0	18.0	333.0	
1982	1,256	1,256	17.0	16.0	17.0	19.0	35.0	35.0	40.0	40.0	32.0	28.0	18.0	18.0	315.0	
1983	1,258	1,258	17.0	15.0	17.0	18.0	28.0	41.0	43.0	39.0	36.0	26.0	18.0	19.0	317.0	
1984	1,296	1,296	19.0	17.0	23.0	26.0	41.0	39.0	43.0	39.0	36.0	26.0	18.0	19.0	346.0	
1985	1,305	1,305	23.0	20.0	23.0	28.0	41.0	46.0	45.0	43.0	38.0	25.0	17.0	21.0	370.0	
1986	1,449	1,449	21.0	18.0	20.0	27.0	39.0	45.0	47.0	42.0	31.0	31.0	30.0	23.0	374.0	
1987	1,571	1,571	24.0	20.0	24.0	40.0	57.0	57.0	58.0	62.0	55.0	44.0	22.0	23.0	486.0	
1988	1,799	1,799	22.0	24.0	39.0	36.0	44.0	56.0	65.0	66.0	59.0	47.0	26.0	28.0	512.0	
1989	2,063	2,063	26.0	24.0	26.0	35.0	59.0	68.0	84.0	75.0	46.0	40.0	34.0	35.0	552.0	
1990	2,274	2,274	26.0	24.0	36.0	52.0	47.0	70.0	82.0	84.0	75.0	68.0	47.0	37.0	648.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				-	PER CAP	ITA WATE	R USE	(gpcd)/3	3			,	NNUALLY	
OF	CONNEC-	TION													gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.93	6,000	86	92	108	122	172	211	210	188	172	140	122	102	144	0.162
1981	4.78	5,836	105	98	99	154	182	268	227	221	183	127	109	99	156	0.17
1982	4.62	5,805	94	98	94	109	194	201	222	222	184	156	103	100	149	0.16
1983	4.47	5,620	98	95	98	107	161	243	247	224	214	149	107	109	155	0.17
1984	4.31	5,590	110	105	133	155	237	233	248	225	215	150	107	110	170	0.19
1985	4.16	5,428	137	132	137	172	244	282	267	256	233	149	104	125	187	0.20
1986	4.01	5,804	117	111	111	155	217	258	261	233	178	172	172	128	177	0.19
1987	3.85	6,050	128	118	128	220	304	314	309	331	303	235	121	123	220	0.24
1988	3.70	6,651	107	124	189	180	213	281	315	320	296	228	130	136	211	0.23
1989	3.54	7,309	115	117	115	160	260	310	371	331	210	177	155	154	207	0.23
1990	3.39	7,706	109	111	151	225	197	303	343	352	324	285	203	155	230	0.258
AVERAGE			109	109	124	160	216	264	275	264	228	179	130	122	182	0.204
					,											

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY								OGA, CITY				ORIGIN (OF WATER	(in pe	ercent):	
	.CALISTOGA			TYPE OF	AGENCY.		4UNICI	PAL WATER	DEPART	MENT						
				H07.000	naw	OVOTE							E WATER		85	
					BAT	SYSTE	4 SEKV	£2:				WELLS	AND SPE	INGS	15	
		#	NORTH B	AT	FAIT	DE 017										
UAU #			40					OUTSIDE.		U		0011005	OF 114 TES			
CITY CEN	ISUS POPUL	ATTON						ITY		X		SUUKLE (Jr WATER	(in pe	ercent):	
	ISUS PUPUL											DUDCH	ASED		35	
					OTTAL		• • • • • •	•••••				_	SUPPLIE		65	
1770		4,400			SERVICE	CONNECT	PIONS	/1				SELF .	OFFLICE		0.5	
RESIDENT	TAI •			COMMERC				INDUSTR	AI -			GOVERNME	NTAL .			
	d	1,134			ed	164			ed	7			ed	20		
	ate				Rate	0			ate	Ó			Rate	0		
T Cat N				· tat		•		1100		٠		T Cat	ate	U		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER I	NTO SYSTE	M (MILI	ION GAL	LONS)					
OF		TIONS /2									,					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MA	/ JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,152	1,082	14.0	12.0	16.0	16.0	19.0	21.0	23.0	22.0	18.0	18.0	14.0	16.0	209.0	
1981	1,152	1,082	12.0	13.0	12.0	14.0	17.0	17.0	17.0	16.0	16.0	13.0	12.0	11.0	170.0	
1982	1,154	1,084	12.0	11.0	12.0	12.0	17.0	19.0	20.0	19.0	17.0	14.0	12.0	12.0	177.0	
1983	1,154	1,084	13.0	12.0	13.0	14.0	18.0	21.0	23.0	22.0	21.0	19.0	16.0	17.0	209.0	
1984	1,156	1,086	16.0	14.0	16.0	17.0	22.0	23.0	25.0	24.0	21.0	19.0	17.0	16.0	230.0	
1985	1,156	1,086	19.0	17.0	16.0	19.0	22.0	26.0	27.0	26.0	19.0	19.0	17.0	19.0	246.0	
1986	1,207	1,137	18.0	16.0	17.0	18.0	23.0	28.0	30.0	28.0	22.0	19.0	18.0	16.0	253.0	
1987	1,205	1,135	18.0	17.0	20.0	24.0	29.0	31.0	31.0	32.0	28.0	26.0	20.0	18.0	294.0	
1988	1,251	1,181	16.0	19.0	25.0	26.0	27.0	31.0	38.0	33.0	31.0	27.0	22.0	25.0	320.0	
1989	1,274	1,204	21.0	18.0	19.0	23.0	27.0	30.0	38.0	36.0	25.0	22.0	19.0	19.0	297.0	
1990	1,299	1,229	18.0	16.0	21.0	24.0	24.0	29.0	34.0	35.0	30.0	28.0	21.0	22.0	302.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CA	PITA WATE	R USE	apcd)/3	3			,	ANNUALLY	
OF	CONNEC-	TION													gpcd	efpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.59	4,130	109	100	125	129	148	169	180	172	145	141	113	125	139	0.155
1981	3.59	4,136	94	112	94	113	133		133	125	129	101	97	86	113	0.126
1982	3.60	4,149	93	95	93	96	132		156	148	137	109	96	93	117	0.131
1983	3.60	4,155	101	103	101	112	140		179	171	168	148	128	132	138	0.154
1984	3.61	4,168	124	116	124	136	170		194	186	168	147	136	124	151	0.169
1985	3.61	4,173	147	145	124	152	170		209	201	152	147	136	147	161	0.181
1986	3.62	4,364	133	131	126	137	170		222	207	168	140	137	118	159	0.178
1987	3.62	4,363	133	139	148	183	214		229	237	214	192	153	133	185	0.207
1988	3.63	4,535	114	144	178	191	192		270	235	228	192	162	178	193	0.217
1989	3.63	4,625	146	139	133	166	188		265	251	180	153	137	133	176	0.197
1990	3.64	4,722	123	121	143	169	164	205	232	239	212	191	148	150	175	0.196
AVERAGE			120	122	126	144	166	193	206	197	173	151	131	129	155	0.174

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	NAPA			WATER A	GENCY		CITY OF	NAPA				ORIGIN	OF WATE	R (in p	ercent):	
CITY	NAPA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPT.							
SYSTEM #	f		28003									SURFA	CE WATE	R	100	
NYDROLOG	IC REGION	ł	SAN FRA	WCISCO	BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
PLANN INC	SUBAREA	#	NORTH E	BAY												
AU #			40		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE	• • • • • • •	х		SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		50,879			OTH	ER		•••••				PURCH	ASED	• • • • • • •	35	
1990		61,843										SELF	SUPPLIE	D	65	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	. 19,692		Meter	ed	1,324		Meter	ed	0		Meter	ed	21		
Flat R	ate	. 0		Flat	Rate	36		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EN (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
1980	18,450	15,592	179.0	177.0	203.0	254.0	373.0	437.0	474.0	431.0	382.0	341.0	272.0	211.0	3734.0	
1981	18,709	15,970	202.0	220.0	220.0	237.0	406.0	525.0	473.0	431.0	382.0	257.0	272.0	211.0	3836.0	
1982	18,854	16,143	207.0	181.0	202.0	248.0	470.0	438.0	530.0	477.0	419.0	293.0	211.0	170.0	3846.0	
1983	18,735	16,665	259.0	195.0	256.0	272.0	406.0	580.0	486.0	526.0	353.0	322.0	250.0	214.0	4119.0	
1984	18,941	16,872	231.0	208.0	247.0	327.0	522.0	572.0	632.0	518.0	475.0	338.0	239.0	232.0	4541.0	
1985	19,279	17,203	214.0	227.0	255.0	345.0	491.0	621.0	644.0	574.0	425.0	352.0	335.0	251.0	4734.0	
1986	19,432	17,372	228.0	224.0	241.0	308.0	488.0	556.0	567.0	512.0	386.0	350.0	309.0	240.0	4409.0	
1987	19,588	17,543	229.0	217.0	243.0	300.0	475.0	570.0	565.0	524.0	392.0	354.0	304.0	246.0	4419.0	
1988	19,745	17,727	230.0	219.0	236.0	301.0	466.0	577.0	607.0	536.0	399.0	353.0	299.0	253.0	4476.0	
1989	20,588	18,490	235.0	210.0	232.0	292.0	445.0	585.0	647.0	560.0	413.0	369.0	289.0	267.0	4544.0	
1990	20,991	18,866	285.0	225.0	265.0	371.0	425.0	474.0	647.0	560.0	415.0	369.0	289.0	267.0	4592.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.26	60,205	96	101	109	141	200	242	254	231	211	183	151	113	170	0.190
1981	3.26	61,078	107	129	116	129	214	287	250	228	208	136	148	111	172	0.193
1982	3.27	61,579	108	105	106	134	246	237	278	250	227	153	114	89	171	0.192
1983	3.27	61,219	136	114	135	148	214	316	256	277	192	170	136	113	184	0.206
1984	3.27	61,920	120	116	129	176	272	308	329	270	256	176	129	121	201	0.225
1985	3.27	63,054	109	129	130	182	251	328	329	294	225	180	177	128	206	0.230
1986	3.27	63,583	116	126	122	161	248	291	288	260	202	178	162	122	190	0.213
1987	3.27	64,122	115	121	122	156	239	296	284	264	204	178	158	124	189	0.211
1988	3.28	64,666	115	117	118	155	232	297	303	267	206	176	154	126	190	0.212
1989	3.28	67,457	112	111	111	144	213	289	309	268	204	176	143	128	185	0.207
1990	3.28	68,809	134	117	124	180	199	230	303	263	201	173	140	125	183	0.205
AVERAGE			115	117	120	155	230	284	289	261	212	171	147	118	185	0.208
· · · · · · · · · · · · · · · · · · ·			113	111	120	133		204	207	201	212		141	110	103	V. EU0

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

	SOLANO				IGENCY							ORIGIN	OF WATE	R (in p	ercent):	
	VALLEJO			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
													CE WATE			
	IC REGION				BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
	SUBAREA			BAY												
DAU #			. 40					OUTSIDE		x		ea ince	OF 1475	D (in m	ercent):	
CITY CEN	ISUS POPUL	ATTON						TY		^		SUURCE	OF MATE	K (in p	ercent):	
												DUDGU	ASED		79	
					OTH	ER		•••••	• • • • • • •				SUPPL IE			
1770		107,177			SERVICE	CONNEC	TIONS	/1				SELF	SOFFLIE	v	21	
RESIDENT	1AI •			COMMERC		COMMEC		INDUSTR	TAL +			GOVERNM	ENTAL -			
	d	31 364			ed	1 677			ed	246			ed	428		
	ate				Rate				Rate	0			Rate	0		
riat k	atc	U		reac	Note	·		rtat	dec			reac	Kate	U		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	24,000	24,000	/5													
1981	,,	,	-	_	_	_	_	_	_	_	_	_	-	_		
1982			_	_	_	_	_	-	_	_	_	-	_	-		
1983			_	_	_	_	_	-	-		-			_	_	
1984	25,519	25,219	369.0	382.0	441.0	503.0	639.0	657.0	724.0	680.0	632.0	493.0	388.0	414.0	6322.0	
1985	28,075	28,075	395.0		399.0	490.0			715.0	664.0	557.0		430.0		6288.0	
1986	29,595	29,595			471.0				731.0			549.0			6684.0	
1987	27,373	27,373			427.0			742.0		688.0		584.0		429.0	-	
1988	34,474	34.474			585.0				814.0			606.0			7221.0	
1989	34,414	34,414		423.0				782.0							7221.0	
1990	35,000	35,000			512.0										7087.0	
WEAR	PERSONS	AVERAGE									-					
YEAR	PER	POPULA-					PER CAP	ITA WAT	EK USE	(gpca)/	3				ANNUALLY	
OF	CONNEC-	TION		-						****					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.35	80,303	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	3.32		-	-	-	-	-	-	-	-	-	-	-	-		-
1982	3.30		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	3.28		-	-	-	-		-	4		-	-		-	-	•
1984	3.26	83,079	143	159	171	202	248	264	281	264	254	191	156	161	208	0.234
1985	3.23	90,765	140	146	142	180	213	247	254	236	205	202	158	152	190	0.213
1986	3.21	95,011	143	142	160	196	240	252	248	238	186	186	170	147	193	0.216
1987	3.19		-	-	-	-	-	-	-	-	-	-	•	-	-	-
1988	3.17	109,116	130	143	173	174	195	214	241	226	213	179	140	141	181	0.203
1989	3.14		-	-	-	-	-	-	-	•	•	•	-	•	-	-
1990	3.12	109,199	139	132	151	191	203	190	212	215	208	191	153	144	178	0.199
								233	247	236						

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data not available.

COUNTY	SOLANO			WATER A	GENCY		BENICIA	, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	BENICIA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM I	F		48001									SURFA	CE WATE	R	100	
HYDROLOG	GIC REGION		SAN FRA	NCISCO	BAY	SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	NORTH E	BAY												
DAU #			41		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		x		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ								
1980		15,376			OTH	ER						PURCH	ASED		100	
1990		24,437										SELF	SUPPL IE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	7,500		Meter	ed	700		Meter	ed	NA		Meter	ed	195		
Flat R	Rate	. 0		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL L	ATED IN	TO SYST	EM (MIL	LTON GA	LLOWS					
OF		TIONS /2				IOIAL W	MILK IN	10 0101	Lii (iii	LION O	LLONG,					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,819	4,819	67.0	61.0	82.0	76.0			118.0		106.0	101.0	88.0		1097.0	
1981	4,850	4,850	75.0	66.0	73.0		125.0		149.0	141.0	123.0	99.0	67.0		1227.0	
1982	5,381	5,381	67.0	58.0	63.0	67.0	113.0		149.0	153.0	124.0	117.0	88.0		1214.0	
1983	5,567	5,567	94.0	78.0	86.0			148.0		145.0	133.0	107.0	76.0		1322.0	
1984	5,895	5,895	71.0	65.0	90.0			157.0	167.0	157.0	160.0	101.0	52.0		1324.0	
1985	6,096	6,096	53.0	52.0	56.0			149.0		166.0	134.0	121.0	92.0		1305.0	
1986	6,419	6,419	78.0	66.0	79.0		149.0	173.0	187.0	178.0	142.0	134.0	119.0		1508.0	
1987	6,648	6,648	85.0	80.0	80.0		170.0	180.0	204.0	203.0	181.0	154.0	98.0 134.0	94.0	1639.0	
1988	6,950	6,950	86.0	115.0	154.0	155.0		180.0		196.0	177.0	189.0 115.0	94.0		1396.0	
1989 1990	7,461	7,461 7,797	115.0	92.0 86.0	77.0				157.0 212.0		120.0				1935.0	
1990	7,797	1,191	94.0	86.0	111.0	144.0	143.0	104.0	212.0	220.0	224.0	190.0	105.0	140.0	1933.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.19	15,376	141	137	172	165	197	230	248	252	230	212	191	164	195	0.219
1981	3.19	15,447	157	153	152	211	261	322	311	294	265	207	145	129	218	0.244
1982	3.18	17,108	126	121	119	131	213	238	281	288	242	221	171	175	194	0.218
1983	3.17	17,668	172	158	157	183	234	279	296	265	251	195	143	124	205	0.230
1984	3.17	18,676	123	120	155	191	249	280	288	271	286	174	93	92	194	0.218
1985	3.16	19,278	89	96	94	161	211	258	300	278	232	202	159	141	185	0.208
1986	3.16	20,263	124	116	126	188	237	285	298	283	234	213	196	142	204	0.228
1987		20,949	131	136	123	175	262	286	314	313	288	237	156	145	214	0.240
1988	3.15	21,861	127	181	227	236	263	274	304	289	270	279	204	192	238	0.267
1989	3.14	23,426	158	140	106	166	201	203	216	211	171	158	134	92	163	0.183
1990	3.13	24,437	124	126	147	196	191	251	280	298	306	261	225	193	217	0.243
4147040			134	470	143	182	229	264	285	277	252	215	165	144	203	0.227
AVERAGE			154	135	145	182	629	204	200	211	06	213	100	144	203	0.227

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually

^{3/} gpcd - gallons per capita daily

fire protection, and other agencies.

Note: Jan. 1987 through Jun. 1987 city had system failure and data has been lost. DWR'S Central Dist. estimated water production for this period.

COUNTY	SOLANO			WATER A	GENCY		FAIRFIE	ELD, CIT	Y OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	FAIRFIELD			TYPE OF	AGENCY		MUNICIE	PAL WATE	R DEPAR	TMENT				·		
SYSTEM #			48003									SURFA	CE WATE	R	100	
HYDROLOG	IC REGION		SAN FRA	ANCISCO	BAY	SYSTE	M SERVE	ES:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	NORTH E	BAY												
DAU #			41		ENT	IRE CIT	γ			X						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE C	ITY						·		
1980		58,099			OTH	ER						PURCH	ASED		100	
1990		77,211											SUPPL IE			
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	18,117		Meter	ed	744		Meter	ed	30		Meter	ed	625		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
VEAD	ACTIVE	CEDVICE				TOTAL U	ATED 11	ITO EVET	EM 2MT1	L TON CA	110000					
YEAR OF	CONNEC	TIONS /2				IOIAL W	MIER II	ITO SYST	CH (MIL	LIUN GA	LLUM3)					
RECORD	SYSTEM	CITY	KAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	12.681	12.624	243.0	243.0	279.0	328.0	436.0	493.0	517.0	472 D	412 n	340 n	273 በ	200 0	4245 n	
1981	12,705	12,705	184.0	172.0	190.0		430.0		523.0	527.0	406.0	253.0	206.0		3912.0	
1982	12,785	12,985	271.0	213.0	234.0			484.0	539.0			356.0	228.0		4251.0	
1983	13,381	13.381	247.0	231.0	266.0		415.0			469.0	465.0	352.0	256.0		4278.0	
1984	13,970	13,904	265.0	238.0				487.0			477.0		262.0		4666.0	
1985	14.696		283.0		292.0			620.0			434.0	392.0	287.0		4867.0	
1986	16,182		278.0	258.0				536.0		605.0			351.0		4852.0	
1987	16,556		266.0	243.0		444.0				594.0		422.0	285.0	280.0	5046.0	
1988	17,415	17,415	284.0					547.0					299.0		5347.0	
1989	17,570			231.0				589.0							5173.0	
1990	19,088							553.0								
YEAR	PERSONS	AVERAGE POPULA-					OED CAL	PITA WAT	ED LICE	(mand) (,				ANNUALLY	
OF	CONNEC-	TION					PER GAR	TIM WAI	ER USE	(Spea)/	3					-6
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afpc /4
			JAN			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
1980	4.60	58,361	134	144	154	187	241	282	286	261	235	193	156	111	199	0.223
1981	4.55	57,764	103	106	106	167	240	310	292	294	234	141	119	108	186	0.208
1982	4.49	58,313	150	130	129	155	258	277	298	294	236	197	130	135	200	0.224
1983	4.44	59,346	134	139	145	168	226	284	284	255	261	191	144	135	197	0.221
1984	4.38	61,180	140	134	149	196	297	265	303	279	260	179	143	151	209	0.234
1985	4.32	63,540	144	147	148	203	257	325	291	272	228	199	151	150	210	0.235
1986	4.27	69,063	130	133	134	173	224	259	273	283	207	198	169	123	192	0.216
1987	4.21	69,737	123	124	135	212	254	269	271	275	250	195	136	130	198	0.222
1988	4.16	72,385	127	131	184	195	214	252	297	285	261	207	138	129	202	0.227
1989	4.10	72,050	135	115	131	175	240	272	301	292	229	193	148	123	197	0.220
1990	4.05	77,211	107	118	122	181	219	239	274	275	240	224	161	137	192	0.215

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

CUUNIT	SAN MATEC		1	WATER A	GENCY	0	COASTSIC	E COUNT	Y WATE	R DISTRI	CT	ORIGIN (OF WATER	(in pe	rcent):	
	HALF MOON				AGENCY.											
												SURFAC	E WATER		80	
				NCISCO I	BAY	SYSTE	SERVES	:					AND SPE		20	
		#														
			42		ENTI	RE CIT	·									
							PLUS C					SOURCE (DE WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION					THE CIT									
										x		PURCHA	ASED		50	
		-											SUPPLIED		50	
		,			SERVICE	CONNECT	TIONS /	′ 1								
RESIDENT	TAL:			COMMERC				NDUSTRI	AL:			GOVERNME	NTAL:			
	d	4.034			ed	380			d	NA			ed	15		
	ate	•			Rate	0			ate	0			Rate	0		
		•				·				•			· · · · · ·	٠		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER INT	O SYSTE	M (MIL	LION GAL	LONS					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,638	3,638	34.7	47.0	35.8	24.1	30.9	46.5	49.6	52.0	51.0	48.0	46.0	38.0	503.6	
1981	3,653	3,653	47.0	35.0	32.0	31.0	43.0	48.0	62.0	55.0	55.0	29.0	34.0	62.0	533.0	
1982	3,689	3,689	40.0	34.0	32.0	39.0	36.0	31.0	70.0	76.0	58.0	49.0	31.0	33.0	529.0	
1983	3,781	3,781	35.0	31.0	21.0	44.0	48.0	64.0	75.0	68.0	71.0	53.0	40.0	40.0	590.0	
1984	3,905	3,905	43.0	39.0	47.0	43.0	58.0	74.0	66.0	68.0	72.0	66.0	52.0	49.0	677.0	
1985	4,000	4,000	44.0	38.0	48.0	33.0	65.0	62.0	68.0	68.0	69.0	61.0	71.0	37.0	664.0	
1986	3,923	3,923	46.0	47.0	58.0	72.0	70.0	92.0	82.0	76.0	63.0	64.0	63.0	51.0	784.0	
1987	4,312	4,312	51.0	49.0	53.0	67.0	76.0	74.0	85.0	80.0	61.0	53.0	40.0	42.0	731.0	
1988	4,190	4,190	44.0	52.0	67.0	57.0	58.0	56.0	66.0	56.0	51.0	44.0	37.0	43.0	631.0	
1989	4,235	4,235	40.0	39.0	50.0	50.0	60.0	69.0	66.0	56.0	51.0	44.0	37.0	46.0	608.0	
1990	4,389	4,389	42.0	42.0	49.0	55.0	53.0	47.0	60.0	56.0	50.0	48.0	46.0	46.0	594.0	
	PERSONS	AVERAGE		-												
YEAR	PER	POPULA-				F	PER CAPI	TA WATE	R USE	(gpcd)/3	3				UNNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	/3	14
1980	3.52	12,805	87	127	90	63	78	121	125	131	133	121	120	96	108	0.12
1981	3.51	12,822	118	97	81	81	108	125	156	138	143	73	88	156	114	0.12
1982	3.50	12,911	100	94	80	101	90	80	175	190	150	122	80	82	112	0.12
1983	3.49	13,196	86	84	51	111	117	162	183	166	179	130	101	98	122	0.13
1984	3.48	13,590	102	99	112	105	138	182	157	161	177	157	128	116	136	0.15
1985	3.47	13,881	102	98	112	79	151	149	158	158	166	142	170	86	131	0.14
1986	3.46	13,575	109	124	138	177	166	226	195	181	155	152	155	121	158	0.17
1987	3.45	14,879	111	118	115	150	165	166	184	173	137	115	90	91	135	0.15
1988	3.44	14,416	98	124	150	132	130	129	148	125	118	98	86	96	120	0.13
1989	3.43	14,529	89	96	111	115	133	158	147	124	117	98	85	102	115	0.12
	3.42	15.014	90	100	105	122	114	104	129	120	111	103	102	99	108	0.12
1990	3.42															

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN MATEO	•						WATER D		IER DIS	IKIGI	OKIGIN	UP WATE	K (in p	percent):	
				TIPE OF	AGENCI	•••••	PODLIC	MAIER D	ISIKICI			CIDEA	CE WATE	0	100	
				NCISCO	RAY	SYSTE	M SERVI	-5-					AND SP			
		#				0.0.0	och v					WCLLS	MILL SP	KINGS		
DAU #			42		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in n	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE C	TY						,		
1980		37,000			ОТН	ER				х		PURCH	ASED		98	
1990		39,670											SUPPLIE			
					SERVICE	CONNEC	TIONS	/1							_	
RESIDENT	IAL:		1	COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d,	10,893		Meter	ed	299		Meter	ed	0		Meter	ed	113		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	10,774	10,774	73.0	74.0	80.0	85.0	109.0	116.0	120.0	117.0	102.0	101.0	93.0	84.0	1154.0	
1981	10,847	10,847	82.0	73.0	86.0	98.0	112.0	129.0	125.0	112.0	108.0	91.0	87.0		1185.0	
1982	10,855	10,855	88.0	74.0	87.0			112.0	123.0	116.0	111.0	99.0	83.0		1186.0	
1983	10,863	10,863	93.0	75.0	83.0	93.0	104.0	117.0	132.0	126.0	119.0	104.0	82.0		1215.0	
1984	10,892	10,892	85.0	75.0	86.0	98.0	119.0	113.0	129.0	112.0	112.0	90.0	80.0		1177.0	
1985	10,914	10,914	80.0	79.0	61.0	86.0	106.0	107.0	118.0	107.0	91.0	98.0	66.0		1072.0	
1986	10,966	10,966	81.0	70.0	71.0	95.0	101.0	109.0	112.0	114.0	94.0	92.0	83.0		1107.0	
1987	10,980	10,980	81.0	70.0	71.0	95.0	101.0	109.0	132.0	140.0	129.0	114.0	95.0	101.0	1238.0	
1988	11,186	11,186	94.0	99.0	107.0	111.0	110.0	104.0	113.0	104.0	96.0	92.0	81.0	86.0	1197.0	
1989	11,175	11,175	84.0	76.0	78.0	79.0	97.0	116.0	121.0	120.0	101.0	101.0	92.0	94.0	1159.0	
1990	11,306	11,306	86.0	80.0	93.0	96.0	100.0	90.0	101.0	99.0	96.0	101.0	92.0	88.0	1122.0	
	PERSONS	AVERAGE	,													
YEAR	PER	POPULA-					PER CAP	PITA WAT	FR USE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								. 30,					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.43	37,000	64	69	70	77	95	105	105	102	92	88	84	73	85	0.096
1981	3.44	37,332	71	70	74	88	97	115	108	97	96	79	78	71	87	0.097
1982	3.45	37,440	76	71	75	80	99	100	106	100	99	85	74	76	87	0.097
1983	3.46	37,549	80	71	71	83	89	104	113	108	106	89	73	75	89	0.099
1984	3.46	37,730	73	69	74	87	102	100	110	96	99	77	71	67	85	0.096
1985	3.47	37,888	68	74	52	76	90	94	100	91	80	83	58	62	78	0.087
1986	3.48	38,150	68	66	60	83	85	95	95	96	82	78	73	72	79	0.089
1987	3.49	38,281	68	65	60	83	85	95	111	118	112	96	83	85	89	0.099
4000	3.49	39,082	78	87	88	95	91	89	93	86	82	76	69	71	84	0.094
1988		70 127	69	69	64	67	80	99	100	99	86	83	78	77	81	0.091
1988	3.50	39,127	07	0,	-	•									O1	
	3.50	39,670	70	72	76	81	81	76	82	81	81	82	77	72	77	0.087

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ efpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SAN MATEO			WATER A	GENCY		BELMONT	COUNTY	WATER	DISTRIC	T	ORIGIN (OF WATER	(in p	ercent):	
CITY	BELMONT			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #			41001									SURFA	CE WATER	₹	100	
HYDROLOG	IC REGION		SAN FRA	NCISCO	BAY	SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	SOUTH BA	AY												
DAU #			43		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	(in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		24,786			OTH	ER						PURCH	ASED		100	
1990		24,127										SELF	SUPPL I EI		0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:		(COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	db	6,832		Meter	ed	440		Meter	ed	52		Meter	ed	96		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	7,143	7,097	64.0	79.0	67.0	87.0	87.0	136.0	96.0	142.0	104.0	138.0	87.0	98.0	1185.0	
1981	7,211	7,151	73.0	84.0	100.0	127.0	138.0	160.0	140.0	131.0	103.0	79.0	76.0	83.0	1294.0	
1982	7,213	6,957	74.0	80.0	87.0	124.0	131.0	141.0	138.0	131.0	101.0	90.0	83.0	78.0	1258.0	
1983	7,234	6,978	75.0	79.0	96.0	95.0	144.0	86.0	140.0	132.0	107.0	85.0	86.0	72.0	1197.0	
1984	7,260	7,004	79.0	91.0	101.0	123.0	148.0	152.0	142.0	149.0	117.0	90.0	79.0	72.0	1343.0	
1985	7,329	7,073	78.0	91.0	99.0	121.0	142.0	153.0	140.0	139.0	124.0	102.0	90.0	72.0	1351.0	
1986	7,346	7,091	85.0	81.0	98.0	128.0	133.0	149.0	156.0	140.0	110.0	117.0	93.0	82.0	1372.0	
1987	7,358	7,104	94.0	86.0	109.0	143.0	141.0	142.0	151.0	141.0	125.0	103.0	73.0	80.0	1388.0	
1988	7.370	7,116	89.0	86.0	112.0	97.0	105.0	110.0	110.0	102.0	92.0	88.0	69.0	78.0	1138.0	
1989	7,389	7,135	69.0	66.0	81.0	84.0	96.0	92.0	95.0	87.0	99.0	112.0	80.0	82.0	1043.0	
1990	7,408	7,151	71.0	73.0	97.0	105.0	92.0	110.0	99.0	108.0	93.0	85.0	76.0	77.0	1086.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAR	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.49	24,947	83	109	87	116	112	182	124	184	139	178	116	127	130	0.146
1981	3.48	25,099	94	120	129	169	177	212	180	168	137	102	101	107	141	0.158
1982	3.47	25,020	95	114	112	165	169	188	178	169	135	116	111	101	138	0.154
1983	3.46	25,007	97	113	124	127	186	115	181	170	143	110	115	93	131	0.147
1984	3.45	25,011	102	125	130	164	191	203	183	192	156	116	105	93	147	0.165
1985	3.43	25,162	100	129	127	160	182	203	179	178	164	131	119	92	147	0.165
1986	3.42	25,133	109	115	126	170	171	198	200	180	146	150	123	105	150	0.168
1987	3.41	25,087	121	122	140	190	181	189	194	181	166	132	97	103	152	0.170
1988	3,40	25,041	115	118	144	129	135	146	142	131	122	113	92	100	125	0.139
1989	3.39	25,018	89	94	104	112	124	123	122	112	132	144	107	106	114	0.12
1990	3.37	24,994	92	104	125	140	119	147	128	139	124	110	101	99	119	0.133
												400				
AVERAGE			100	115	123	149	159	173	165	164	142	128	108	102	136	0.152

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

				IMTED A	OFNEY		041 1 500			105 000						
	SAN MATEC BEAR GULC				AGENCY				ER SERV	ICE COM	PANY	ORIGIN	OF WATE	R (in p	percent):	
	BEAR GULU			TIPE OF	AGENCI		INVESTO	K OMNED				C Dea	CE WATE		100	
	IC REGION			HCICO	DAY	CVCTE	M SERVE	c.					AND SP			
	SUBAREA				DAI	31316	M SERVE	3:				MELLS	AMD SP	KINGS	. 0	
	SUBAREA			W. 1	ENT	IDE CIT	γ									
DAU #			43				Y PLUS					00110.05				
												SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI								***	
					OTH	ER	•••••	•••••	• • • • • • •	Х			ASED			
1990	•••••	14,895										SELF	SUPPLIE	D	. 0	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d				ed	•			ed	7			ed			
Flat R	late	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	1011	-		400	***			****			****			
RECORD	SYSTEM	CITY	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	16,084	16,084	146.0	148 0	175.0	243.0	353 A	420 C	445 C	435 C	370 0	323 n	261.0	172 0	3471.0	
1981	16,181	•	164.0				403.0				380.0				3592.0	
1982	16,221				152.0						351.0				3430.0	
1983					147.0							303.0				
1984	16,251	•													3485.0	
	16,329	16,329					479.0					303.0			3956.0	
1985	16,405	,		181.0			441.0				470.0				4008.0	
1986	16,479	16,479					453.0			503.0					4159.0	
1987	16,598		195.0		226.0			513.0	534.0	524.0		373.0	209.0		4230.0	
1988	16,654	•			335.0										3577.0	
1989	16,760				153.0										3663.0	
1990	23,580	23,580	184.0	163.0	235.0	330.0	326.0	339.0	425.0	415.0	368.0	337.0	260.0	219.0	3601.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.29	52,963	89	96	107	153	215	264	 271	265	233	197	152	105	180	0.201
1981	3.28	53.094	100	96	97	182	245	326	301	270	239	161	106	96	185	0.208
1982	3.27	53,036	98	99	92	120	260	270	285	281	221	181	105	108	177	0.198
1983	3.26	52,944	105	93	90	127	170	298	325	293	250	185	118	104	180	0.202
1984	3.25	53,008	105	114	150	193	291	317	325	293	250	184	118	104	204	0.229
1985	3.23	53,063	102	122	123	210	268	319	336	309	295	179	108	107	207	0.232
1986	3.22	53,110	105	108	129	202	275	326	335	306	242	220	189	131	215	0.240
1987	3.21	53,300	118	118	137	236	284	321	323	317	285	226	131	108	217	0.244
1988	3.20	53,285	108	150	203	204	196	230	246	236	212	189	118	108	184	0.206
1989	3.19	53,429	101	104	92	152	209	271	295	298	240	191	161	133	188	0.210
1990	3.18	74,895	79	78	101	147	140	151	183	179	164	145	116	94	132	0.148
1770	3.10	17,073	.,		101	171	170	.51	١ω	.,,	104	173	110	-	152	3.140
AVERAGE			101	107	120	175	232	281	293	277	239	187	129	109	188	0.211

fire protection, and other agencies.

Note: Bear Gulch District consists of: Atherton, Menlo Park, Portola Valley Woodside, North Fair Oaks and West Menlo Park.

^{1/} Number of services
3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually

CITY				MATER A	GENCY		CALIFOR	NIA WATE	R SERVI	CE COMP	PANY	ORIGIN (OF WATER	(in p	ercent):	
	SAN MATEO					1								,		
CACLEM 1		• • • • • • • • • • • • • • • • • • • •										SURFA	CE WATER		0	
		s		NCISCO	BAY	SYSTE	4 SERVES	S:				WELLS	AND SPR	INGS	100	
		#														
			43		ENT	IRE CITY	r									
,,,,, w	•••••	•••••	-			IRE CIT						SOURCE	OF WATER	(in p	ercent):	
CEN CEN	ISUS POPUL	ATTON			PUS.	TION OF	THE CI	ΙΥ								
						ER				х		PURCH	ASED		100	
					01								SUPPLIED		0	
1990		20,101			SERVICE	CONNECT	TIONS	/1				-			•	
ESIDENT	TAL .			COMMERC		COMME		INDUSTR	IAI -			GOVERNM	FNTAL :			
	d	10 267			ed	0 816			ed	92			ed	57		
	ate	-			Rate	•			Rate	0			Rate	0		
rtat R	(a.e	U		rtat	Rate	٠		rtat	Nate	•		1 100	NGCC	•		
YEAR	ACTIVE	SEBUTCE				TOTAL W	ATER IN	TO SYST	FM CMTL	TON CAL	LLONS					
OF		TIONS /2				OIAL W		51311	mi (maki							
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
RECORD					1944		191			,,,,,,,						
1980	9,169	9,169	85.0	87.0	95.0	110.0	133.0	149.0	156.0	154.0	138.0	128.0	107.0	91.0	1433.0	
1981	9,285	9,285	88.0	78.0	88.0			176.0	173.0	162.0	135.0	111.0	89.0		1452.0	
1982	9.331	9,331	87.0	81.0	88.0	98.0		148.0	160.0	158.0	135.0	120.0	90.0		1403.0	
1983	9,358	9,358	90.0	80.0	90.0				170.0	160.0	149.0	121.0	91.0		1422.0	
1984	9,432	9,432	90.0	85.0	104.0		158.0	158.0	173.0	164.0	154.0	115.0	86.0		1492.0	
1985	9,515	9,515	90.0	87.0	93.0		148.0	162.0	171.0	160.0	139.0	126.0	96.0		1482.0	
1986	9,580	9,580	88.0	78.0	95.0	117.0	152.0	168.0	175.0	166.0	135.0	134.0	118.0		1524.0	
1987	9,686	9,686	96.0	87.0	103.0	140.0	159.0	163.0	168.0	167.0	152.0	133.0	96.0		1555.0	
1988	9,731	9,731	93.0	103.0	129.0	121.0	126.0	134.0	142.0	135.0	120.0	108.0	85.0		1381.0	
1989	9,731	9,896	83.0	80.0	77.0	97.0	120.0	137.0	148.0	149.0		114.0	101.0		1325.0	
1990	11,807	11,807	87.0	77.0		115.0							95.0		1293.0	
	PERSONS	AVERAGE														
	PER															
YEAR		POPULA-				1	PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	
OF	CONNEC- TION	TION	JAN	FEB	MAR	APR	PER CAP	JUN	er use Jul	(gpcd)/:	3 SEP	ост	NOV	DEC		14
OF	CONNEC- TION	TION	JAN 108	FEB	MAR 120							OCT 162	NOV 140		gpcd	/4
OF RECORD	CONNEC- TION	TION SERVED				APR	MAY	JUN	JUL	AUG	SEP			DEC	gpcd /3	0.17
OF RECORD	CONNEC- TION 2.78	TION SERVED 25,461	108	118	120	APR	MAY 169	JUN 195	JUL 198	AUG 195	SEP 181	162	140	DEC 115	gpcd /3	0.17 0.17
OF ECORD 1980 1981	CONNEC- TION 2.78 2.72	TION SERVED 25,461 25,263	108 112	118 110	120 112	APR 144 158	MAY 169 185	JUN 195 232	JUL 198 221	AUG 195 207	SEP 181 178	162 142	140 117	DEC 115 111	gpcd /3 154 157	0.17 0.17 0.17
OF ECORD 1980 1981 1982	2.78 2.72 2.66	TION SERVED 25,461 25,263 24,865	108 112 113	118 110 116	120 112 114	APR 144 158 131	169 185 191	JUN 195 232 198	JUL 198 221 208	AUG 195 207 205	SEP 181 178 181	162 142 156	140 117 121	DEC 115 111 118	gpcd /3 154 157 155	0.17 0.17 0.17 0.17
OF ECORD 1980 1981 1982 1983	2.78 2.72 2.66 2.61	TION SERVED 25,461 25,263 24,865 24,412	108 112 113 119	118 110 116 117	120 112 114 119	APR 144 158 131 132	169 185 191 170	JUN 195 232 198 218	JUL 198 221 208 225	AUG 195 207 205 211	SEP 181 178 181 203	162 142 156 160	140 117 121 124	DEC 115 111 118 112	gpcd /3 154 157 155 160	0.17 0.17 0.17 0.17 0.17
OF RECORD 1980 1981 1982 1983 1984	2.78 2.72 2.66 2.61 2.55	TION SERVED 25,461 25,263 24,865 24,412 24,076	108 112 113 119 121	118 110 116 117 122	120 112 114 119 139	APR 144 158 131 132 165	169 185 191 170 212	JUN 195 232 198 218 219	JUL 198 221 208 225 232	AUG 195 207 205 211 220	SEP 181 178 181 203 213	162 142 156 160 154	140 117 121 124 119	DEC 115 111 118 112 115	154 157 155 160 170	0.17 0.17 0.17 0.17 0.19
OF RECORD 1980 1981 1982 1983 1984 1985	2.78 2.72 2.66 2.61 2.55 2.50	TION SERVED 25,461 25,263 24,865 24,412 24,076 23,755	108 112 113 119 121 122	118 110 116 117 122 131	120 112 114 119 139 126	144 158 131 132 165 174	169 185 191 170 212 201	JUN 195 232 198 218 219 227	JUL 198 221 208 225 232 232	195 207 205 211 220 217	181 178 181 203 213 195	162 142 156 160 154 171	140 117 121 124 119 135	115 111 118 112 115	gpcd /3 154 157 155 160 170 171	0.17 0.17 0.17 0.17 0.19 0.19
OF RECORD 1980 1981 1982 1983 1984 1985 1986	2.78 2.72 2.66 2.61 2.55 2.50 2.44	TION SERVED 25,461 25,263 24,865 24,412 24,076 23,755 23,380 23,095	108 112 113 119 121 122 121	118 110 116 117 122 131	120 112 114 119 139 126 131	APR 144 158 131 132 165 174 167	169 185 191 170 212 201 210	JUN 195 232 198 218 219 227 240	JUL 198 221 208 225 232 232 241	AUG 195 207 205 211 220 217 229	SEP 181 178 181 203 213 195 192	162 142 156 160 154 171 185	140 117 121 124 119 135 168	115 111 118 112 115 117	gpcd /3 154 157 155 160 170 171 179	0.17 0.17 0.17 0.17 0.19 0.19 0.20
0F RECORD 1980 1981 1982 1983 1984 1985 1986 1987	2.78 2.72 2.66 2.61 2.55 2.50 2.44 2.38	TION SERVED 25,461 25,263 24,865 24,412 24,076 23,755 23,380	108 112 113 119 121 122 121 134	118 110 116 117 122 131 119	120 112 114 119 139 126 131	APR 144 158 131 132 165 174 167 202	169 185 191 170 212 201 210 222	JUN 195 232 198 218 219 227 240 235	JUL 198 221 208 225 232 232 241 235	AUG 195 207 205 211 220 217 229 233	SEP 181 178 181 203 213 195 192 219	162 142 156 160 154 171 185 186	140 117 121 124 119 135 168 139	115 111 118 112 115 117 135 127	gpcd /3 154 157 155 160 170 171 179 184	0.17 0.17 0.17 0.17 0.19 0.19 0.20 0.20 0.18
0F RECORD 1980 1981 1982 1983 1984 1985 1986 1987 1988	2.78 2.72 2.66 2.61 2.55 2.50 2.44 2.38 2.33	TION SERVED 25,461 25,263 24,865 24,412 24,076 23,755 23,380 23,095 22,657	108 112 113 119 121 122 121 134 132	118 110 116 117 122 131 119 135	120 112 114 119 139 126 131 144	APR 144 158 131 132 165 174 167 202 178	169 185 191 170 212 201 210 222 179	JUN 195 232 198 218 219 227 240 235 197	JUL 198 221 208 225 232 232 241 235 202	AUG 195 207 205 211 220 217 229 233 192	SEP 181 178 181 203 213 195 199 219 177	162 142 156 160 154 171 185 186	140 117 121 124 119 135 168 139 125	DEC 115 111 118 112 115 117 135 127 121	9pcd /3 154 157 155 160 170 171 179 184 167	0.17 0.17 0.17 0.17 0.17 0.19 0.19 0.20 0.20 0.18 0.18
0F RECORD 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	CONNECTION 2.78 2.72 2.66 2.61 2.55 2.50 2.44 2.38 2.33 2.27	TION SERVED 25,461 25,263 24,865 24,412 24,076 23,755 23,380 23,095 22,657 22,487	108 112 113 119 121 122 121 134 132 119	118 110 116 117 122 131 119 135 157	120 112 114 119 139 126 131 144 184	APR 144 158 131 132 165 174 167 202 178 144	169 185 191 170 212 201 210 222 179	JUN 195 232 198 218 219 227 240 235 197 203	JUL 198 221 208 225 232 232 241 235 202 212	AUG 195 207 205 211 220 217 229 233 192 214	SEP 181 178 181 203 213 195 192 219 177 184	162 142 156 160 154 171 185 186 154	140 117 121 124 119 135 168 139 125	115 111 118 112 115 117 135 127 121 136	9pcd /3 154 157 155 160 170 171 179 184 167 161	0.17 0.17 0.17 0.17 0.19 0.19 0.20 0.20 0.18

^{1/} Number of services

.....

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	-															
	SAN MATEO				GENCY					ICE COM	PANY	ORIGIN	OF WATE	R (in p	ercent):	
	SAN MATEO			TTPE UP	AGENCY		INVESTO	R OWNED								
				war coo	DAV	CVCTC	M OFFI	0-					CE WATE			
	IC REGION SUBAREA				BAT	21215	M SERVE	5:				WELLS	AND SP	RINGS	0	
DAU #		• • • • • • • • •	43				Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE	• • • • • • •			SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	τγ	• • • • • •							
1980	• • • • • • • • •	81,584			OTH	ER	• • • • • • •	• • • • • •	• • • • • • •	X		PURCH	ASED	• • • • • • •	100	
1990	• • • • • • • • •	88,130										SELF	SUPPL IE	D	. 0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT				COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	22,110		Meter	ed	24,836		Heter	ed	12		Meter	ed	244		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	24,007	24.007	267.0	256.0	201 0	330.0	406.0	464 D	456 D	461 n	458 0	420.0	352 0	312 0	4473.0	
1981	24,141	24,141	285.0	243.0			418.0						257.0		4174.0	
1982	24,144	24,144	252.0	239.0	256.0		431.0				397.0	354.0	261.0		4174.0	
1983	24,212	24,212	267.0	233.0			374.0				449.0	371.0	275.0		4266.0	
1984	24,212	24,212	274.0	258.0	324.0		492.0		523.0	500.0	471.0	356.0	270.0		4590.0	
1985	24,431	24,431	279.0	269.0			455.0		538.0						4651.0	
1986	24,497	24,497	281.0	252.0	308.0		470.0		531.0	504.0	418.0	409.0	363.0		4741.0	
1987	24,598	24,598	320.0	282.0	332.0	436.0			522.0	505.0	486.0	462.0	322.0		4964.0	
1988	24,685	24,685	322.0		388.0		374.0			397.0		318.0	252.0		4176.0	
1989	24,700	24,700	253.0				384.0								4216.0	
1990	36,349	36,349			296.0											
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.40	81,584	106	108	115	135	161	190	180	182	187	166	144	123	150	0.168
1981	3.30	79,689	115	109	107	143	169	208	199	176	156	129	108	101	144	0.161
1982	3.20	77,347	105	110	107	122	180	187	198	199	171	148	112	111	146	0.164
1983	3.11	75,207	115	111	113	128	160	211	220	208	199	159	122	117	155	0.174
1984	3.01	73,208	121	122	143	168	217	219	230	220	214	157	123	120	172	0.192
1985	2.91	71,130	127	135	134	178	206	239	244	230	200	177	145	132	179	0.201
1986	2.81	68,936	131	131	144	178	220	244	248	236	202	191	176	155	188	0.211
1987	2.72	66,825	154	151	160	217	235	250	252	244	242	223	161	149	204	0.228
1988	2.62	64,658	161	180	194	182	187	203	213	198	185	159	130	128	177	0.198
1989	2.52	62,292	131	130	128	160	199	231	242	240	207	239	162	151	185	0.208
1990	2.42	88,130	96	97	108	135	134	141	148	147	138	130	110	101	124	0.139
AVERAGE			124	126	132	159	188	211	216	207	191	171	136	126	166	0.186

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN MATEC									ICE COM	PANY	ORIGIN	OF WATE	R (in p	ercent):	
		RANCISCO		TYPE OF	AGENCY	• • • • • • • • • • • • • • • • • • • •	INVESTO	R OWNED								
													CE WATE		-	
		#			BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	15	
DAU #			43		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ		X						
1980		48,488			ОТН	ER						PURCH	ASED		85	
1990		59,154										SELF	SUPPLIE	D	15	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	12,710		Meter	ed	16,110		Meter	ed	80		Meter	ed	221		
Flat R	Rate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR OF		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
1980	13,887	13,887	187.0	180.0	206.0	227.0	254.0	267.0	256.0	262.0	239.0	239.0	200.0	191.0	2708.0	
1981	13,981	13,981	189.0	169.0	190.0	223.0	258.0	282.0	264.0	266.0	249.0	217.0	182.0	177.0	2666.0	
1982	14,023	14,023	185.0	170.0	190.0	223.0	258.0	282.0	264.0	266.0	249.0	217.0	167.0	159.0	2630.0	
1983	14,018	14,018	188.0	169.0	187.0	185.0	236.0	280.0	278.0	288.0	266.0	237.0	193.0	188.0	2695.0	
1984	14,107	14,107	191.0	189.0	221.0	240.0	284.0	265.0	281.0	285.0	280.0	237.0	181.0	166.0	2820.0	
1985	14,169	14,169	195.0	186.0	191.0	225.0	277.0	288.0	297.0	278.0	250.0	251.0	202.0	178.0	2818.0	
1986	14,180	14,180	180.0	174.0	198.0	231.0	283.0	296.0	300.0	288.0	245.0	247.0	212.0	172.0	2826.0	
1987	14,303	14,303	191.0	175.0	197.0	253.0	286.0	287.0	290.0	299.0	264.0	255.0	191.0	186.0	2874.0	
1988	14,373	14,373	185.0	198.0	239.0	229.0	232.0	240.0	238.0	240.0	221.0	202.0	172.0	171.0	2567.0	
1989	14,500	14,500	168.0	153.0	162.0	199.0	228.0	253.0	264.0	270.0	232.0	219.0	197.0	185.0	2530.0	
1990	17,236	17,236	175.0	164.0	194.0	220.0	226.0	230.0	242.0	245.0	229.0	234.0	200.0	179.0	2538.0	
WEAD		AVERAGE					DED 01D		ED 1105		•					
YEAR	PER	POPULA-					PER CAP	IIA WAI	ER USE	(gpca)/	3				ANNUALLY	
RECORD	CONNEC-	TION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	afpc
	1204	SERVED	JAN	150		AFR			30L		3CF					/
1980	3.49	48,488	124	128	137	156	169	184	170	174	164	159	137	127	153	0.171
1981	3.49	48,733	125	124	126	153	171	193	175	176	170	144	124	117	150	0.168
1982	3.48	48,796	122	124	126	152	171	193	175	176	170	143	114	105	148	0.165
1983	3.47	48,695	125	124	124	127	156	192	184	191	182	157	132	125	152	0.170
1984	3.47	48,920	126	133	146	164	187	181	185	188	191	156	123	109	158	0.177
1985	3.46	49,050	128	135	126	153	182	196	195	183	170	165	137	117	157	0.176
1986	3.46	49,004	118	127	130	157	186	201	197	190	167	163	144	113	158	0.177
1987	3.45	49,344	125	127	129	171	187	194	190	195	178	167	129	122	160	0.179
1988	3.44	49,500	121	138	156	154	151	162	155	156	149	132	116	111	142	0.159
1989	3.44	49,850	109	110	105	133	148	169	171	175	155	142	132	120	139	0.156
1990	3.43	59,154	95	99	106	124	123	130	132	134	129	128	113	98	118	0.132

^{1/} Number of services

Note: South San Francisco District consists of: South San Francisco, Colma and Broadmoor.

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

	SAN MATE				GENCY			•				ORIGIN	OF WATE	R (in p	ercent):	
	.DALY CITY			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
	#							_						R		
	GIC REGION				BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	62	
	G SUBAREA			SAY	-											
DAU #	• • • • • • • • • •		. 43						•••••							
									• • • • • • • • • • • • • • • • • • • •			SOURCE	OF WATE	R (in p	ercent):	
	NSUS POPUL								•••••							
	• • • • • • • • • • • • • • • • • • • •				DIH	ER		•••••	•••••							
1990		92,311			0501105		T. 100 10	44				SELF	SUPPLIE	D	62	
25012511					SERVICE	CONNEC		•								
RESIDENT		40.770		COMMERC		507		INDUSTR		07		GOVERNM		0/0		
	ed	•			ed				ed				ed			
Flat F	Rate	. 0		Flat	Rate	0		Flat	Rate	0		Flet	Rate	. 0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	313164			150	FINAL	AF K		JUN	9UL	MUM	əcr	001	NOV	DEC	MINUAL	
1980	19,188	19,188	184.0	172.0	196.0	207.0	223.0	246.0	245.0	236.0	224.0	225.0	197.0	195.0	2550.0	
1981	19,290	19,290	192.0	172.0	194.0	210.0	245.0	261.0	259.0	242.0	232.0	217.0	195.0	190.0	2609.0	
1982	20,022	20,022			192.0											
1983	20,058				203.0										2720.0	
1984	20,077	20,077	215.0	212.0						278.0	271.0			229.0		
1985	20, 159	20,159	226.0	205.0	227.0	233.0	268.0	270.0	287.0	280.0	253.0	247.0	229.0	230.0	2955.0	
1986	20,514				234.0					280.0	258.0				3056.0	
1987	20,847	20.847	237.0	215.0	233.0	353.0	294.0			294.0	276.0	265.0	233.0	231.0	3206.0	
1988	20,919			230.0					247.0						2809.0	
1989	21,209	•			210.0											
1990	21,303	21,303	224.0	201.0	227.0	234.0	239.0	233.0	242.0	241.0	229.0	227.0	211.0	215.0	2723.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.09	78,427	76	76	81	88	92	105	101	97	95	93	84	80	89	0.100
1981	4.11	79,318	78	77	79	88	100	110	105	98	97	88	82	77	90	0.101
1982	4.14	82,821	77	76	75	80	96	99	97	97	94	90	81	79	87	0.097
1983	4.16	83,463	78	78	78	81	91	101	106	105	103	92	81	77	89	0.100
1984	4.19	84,036	83	87	90	98	107	105	107	107	107	91	85	88	97	0.108
1985	4.21	84,875	86	86	86	92	102	106	109	106	99	94	90	87	95	0.107
1986	4.23	86,874	85	85	87	94	101	110	111	104	99	96	94	89	96	0.108
1987	4.26	88,797	86	86	85	133	107	105	108	107	104	96	87	84	99	0.111
1988	4.28	89,618	84	88	93	97	90	86	89	82	84	81	77	77	86	0.096
1989	4.31	91,382	78	73	74	78	84	92	96	95	90	86	82	80	84	0.094
1990	4.33	92,311	78	78	79	84	84	84	85	84	83	79	76	75	81	0.091
AVERAGE			81	81	82	92	96	100	101	98	96	90	84	81	90	0.101

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

COUNTY	SAN MATEC)		ATER AG	ENCY	н	ILLSBOR	OUGH, T	OWN OF		(ORIGIN C	F WATER	(in p	ercent):	
CITY	NILLSBORG	JUGH	1	TYPE OF	AGENCY.	H	UNICIPA	L WATER	DEPAR	THENT						
SYSTEM #	·		41016									SURFAC	E WATER		100	
IYDROLOG	IC REGION	1 1/	AN FRAN	CISCO E	BAY	SYSTEM	SERVES	:				WELLS	AND SPR	INGS	0	
LANNING	SUBAREA	#	SOUTH BA	LY.												
AU #			43		ALL	IN THE	CITY									
					ALL	IN THE	CITY PL	us outs	IDE	Х		SOURCE C	F WATER	(in p	ercent):	
ITY CEN	ISUS POPUL	ATION			PART	LY IN T	HE CITY	ONLY								
1980		10,372			OTHE	R						PURCHA	SED		100	
1990		10,667										SELF S	UPPL IED		0	
				5	ERVICE	CONNECT	10NS: 2	/								
ESIDENT	IAL:			COMMERCI	AL:		1	NDUSTRI.	AL:		(GOVERNME	NTAL:			
Hetere	db	4,304		Metere	ed	NA		Metere	d	0		Metere	d	33		
Flat R	ate	. 0		Flat R	late	0		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			т	OTAL WA	TER INT	O SYSTE	M (MILI	LION GALI	LONS)					
OF	CONNEC	TIONS 3/														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,880	3,776	49	36	68	92	127	152	166	146	141	99	67		1200.0	
1981	3,932	3.828	42	42	56	123	145	210	184	172	110	79	38		1240.0	
1982	3,948	3,844	37	44	40	109	153	154	181	161	117	66	47	38	1147.0	
1983	3,960	3,856	35	33	48	70	159	178	202	168	131	81	43		1197.0	
1984	3,973	3,869	49	58	91	114	177	206	192	183	149	64	42		1370.0	
1985	3,992	3,888	46	61	84	130	159	209	188	164	158	96	52		1397.0	
1986	4,015	3,911	49	47	75	134	176	191	210	186	124	118	90		1455.0	
1987	4,056	3,952	53	54	86	158	169	190	193	185	155	86	52		1431.0	
1988	4,089	3,985	46	87	142	84	113	133	128	120	97	62	37		1093.0	
1989	4,156	4,052	37	38	47	75	132	166	156	162	111	88	64		1139.0	
1990	4,171	4,067	41	50	77	122	107	121	133	142	110	94	70	54	1121.0	
	PERSONS	AVERAGE					•									
YEAR	PER	POPULA-					ED CADI	TA WATE	D LICE	(gpcd)/3					ANNUALLY	
OF	CONNEC-	TION				,	LK CAFI	IA WAIL	K USL	(Speci)/3					good	afp
ECORD	TION	SERVED	KAL	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
	2.75		4/0	114	204	200	70/	/75	E02	//2	//4	700	210	177	706	0.7/
1980 1981	2.75	10,658	148	116 140	206	288 381	384	475	502	442	441 341	300 237	210 118	173 117	308	0.34
1982	2.73	10,752			168	338	435 459	651	552 543	516 483	363	198			316	0.35
1983	2.72	10,747 10,730	111	146 110	120	217	478	478 553	543 607	505	407	244	146 134	114	292 306	0.32
1984	2.70	10,730	148	187	274	355	533	641	578	551	463	193	131	135	350	0.34
1985	2.68	10,718	138	203	253	404	479	650	566	494	491	289	162	150	357	0.40
1986	2.67	10,718	147	203 156	225	416	529	593	631	559	385	355	280	165	372	0.40
1987	2.66	10,730	158	179	257	488	505	587	577	553	303 479	357 257	161	149	363	
1988	2.65	10,789	137	277	423	259	337	410	381	358	299	185	114	131		0.40
1989	2.64	•	109	124	138	228	389	505	381 459	338 477	338	259	195	186	277 285	0.31
1990	2.62	10,952	121	163	227	372	316	369	459 392	419	335	277	213	159	281	0.31
1770	2.02	10,940	121	103	221	312	310	307	372	417	333	211	213	139	201	0.31
VERAGE			132	164	221	341	440	537	526	487	395	254	169	148	319	0.35

^{1/} Abbreviation for Hydrologic Region

••••••

^{2/} Number of services

^{3/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} gpcd - gallons per capita daily
5/ afpca - acre-feet per capita annually

^{6/} N/A - not available, or not applicable

	SAN MATEO							E, CITY		TA 4575		ORIGIN	OF WATER	(in p	ercent):	
	MILLBRAE			TYPE OF	AGENCY	• • • • • • • • • • • • • • • • • • • •	MUNICIA	PAL WATE	R DEPAR	TMENT						
	f												CE WATER		100	
	IC REGION				BAY	SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
	SUBAREA			AY												
DAU #		• • • • • • • • • • • • • • • • • • • •	43					• • • • • • • •		x						
								OUTSIDE				SOURCE	OF WATER	(in p	ercent):	
	ISUS POPUL				POR	TION OF	THE C	ITY	• • • • • • •							
		-			OTH	ER	• • • • • •	• • • • • • • •	• • • • • •			PURCH	ASED	• • • • • •	100	
1990		20,412										SELF	SUPPL I EI	·	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	1,534		Meter	ed	10		Meter	ed	1		Meter	ed	4		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,000	6,000	/5		•	-						-		-	895.0	
1981	6,200	6,200	-	-	-	-	-		-	-	-	_	-	-	925.0	
1982	6.515	6,515	-	_	-	-	-		-	-					923.0	
1983	6,515	6,515	66.0	61.0	65.0	73.0	107.0	116.0	116.0	117.0	89.0	70.0	62.0	60.0	1002.0	
1984	6,575	6,575	71.0	69.0	83.0	105.0	119.0	130.0	131.0	115.0	93.0	82.0	63.0	62.0	1123.0	
1985	6,286	6,286	65.0	84.0	82.0	111.0	112.0	131.0	129.0	115.0	93.0	81.0	78.0	65.0	1146.0	
1986	6,307	6,307	59.0	67.0	65.0	71.0	98.0		135.0	118.0	85.0	87.0	75.0		1048.0	
1987	6,429	6,429	62.0	67.0	57.0	55.0	125.0	117.0	127.0	122.0	101.0	98.0	73.0		1067.0	
1988	6,552	6,552	65.0	116.0	48.0	39.0	151.0	110.0	118.0	126.0	116.0	109.0	71.0		1130.0	
1989	6,317	6,317	57.0	54.0	63.0	67.0	85.0	104.0	93.0	85.0	83.0	62.0	53.0	64.0	870.0	
1990	6,401	6,401	61.0	61.0	75.0	81.0	85.0	81.0		112.0	82.0	69.0	62.0	61.0	932.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAR	PITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.33	20,000	-	-		-		-		-		-	-	-	123	0.137
1981	3.32	20,577		_				-	-	-	-	-	-	-	123	0.138
1982	3.30	21,528		-		-	-		-	-	-	-			117	0.132
1983	3.29	21,434	99	102	98	114	161	180	175	176	138	105	96	90	128	0.143
1984	3.28	21,537	106	110	124	163	178	201	196	172	144	123	98	93	143	0.160
1985	3.26	20,499	102	146	129	180	176	213	203	181	151	127	127	102	153	0.172
1986	3.25	20,477	93	117	102	116	154	200	213	186	138	137	122	102	140	0.157
1987	3.23	20,780	96	115	88	88	194	188	197	189	162	152	117	98	141	0.158
1988	3.22	21,083	99	190	73	62	231	174	181	193	183	167	112	93	147	0.164
1989	3.20	20,235	91	95	100	110	136	171	148	136	137	99	87	102	118	0.132
1990	3.19	20,412	96	107	119	132	134	132	161	177	134	109	101	96	125	0.140
,•		20,112	,0		,		.54					,		,,,		21.70
AVERAGE			98	123	104	121	171	183	184	176	148	127	108	97	133	0.148

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SAN MATEO			WATER A	GENCY		REDWOOD	CITY,	CITY OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	REDWOOD C	ITY		TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	f		41022									SURFA	CE WATE	R	100	
HYDROLOG	IC REGION		SAN FRA	NCISCO	BAY	SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	SOUTH E	BAY												
DAU #			43		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		54,965			OTH	ER						PURCH	ASED		100	
1990		66,072										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNI	ENTAL:			
Metere	db	17,625		Heter	ed	1,756		Meter	ed	21		Meter	ed	377		
Flat R	late	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM CMIL	LION GA	LLONS					
OF	CONNEC	TIONS /2							•							
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	18,316	16,681	218.0	219.0	239.0	243.0	285.0	331.0	361.0	387.0	364.0	349.0	320.0	223.0	3539.0	
1981	18,473	16,823	210.0	210.0	210.0	230.0	290.0	335.0	406.0	383.0	348.0	299.0	224.0	200.0	3345.0	
1982	18,562	16,902	208.0	199.0	202.0	219.0	304.0	337.0	335.0	344.0	317.0	251.0	197.0	189.0	3102.0	
1983	18,562	15,583	189.0	186.0	190.0	228.0	257.0	356.0	353.0	403.0	379.0	296.0	256.0	220.0	3313.0	
1984	18,914	15,792	212.0	227.0	243.0	282.0	340.0	394.0	401.0	392.0	394.0	332.0	266.0	234.0	3717.0	
1985	19,422	15,792	215.0	235.0	253.0	278.0	350.0	399.0	422.0	404.0	383.0	339.0	277.0	220.0	3775.0	
1986	19,422	15,897	224.0	222.0	215.0	275.0	348.0	379.0	423.0	440.0	391.0	312.0	328.0	255.0	3812.0	
1987	20,001	16,380	240.0	235.0	232.0	305.0	392.0	379.0	416.0	412.0	388.0	346.0	267.0	206.0	3818.0	
1988	20,225	16,527	219.0	238.0	262.0	316.0	285.0	307.0	314.0	309.0	294.0	260.0	247.0	190.0	3241.0	
1989	19,981	16,498	206.0	187.0	175.0	228.0	225.0	302.0	377.0	359.0	345.0	308.0	255.0	224.0	3191.0	
1990	20,969	17,384	223.0	197.0	207.0	283.0	307.0	289.0	342.0	316.0	344.0	293.0	264.0	218.0	3283.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	FR LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION							EK OOL	(Spour)	_				good	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.30	60,352	117	125	128	134	152	183	193	207	201	187	177	119	161	0.180
1981	3.35	61,804	110	121	110	124	151	181	212	200	188	156	121	104	148	0.166
1982	3,40	63,040	106	113	103	116	156	178	171	176	168	128	104	97	135	0.151
1983	3.45	63,979	95	104	96	119	130	185	178	203	197	149	133	111	142	0.159
1984	3.50	66,149	103	118	119	142	166	199	196	191	199	162	134	114	154	0.172
1985	3.55	68,907	101	122	118	134	164	193	198	189	185	159	134	103	150	0.168
1986	3.60	69,889	103		99	131	161	181	195	203	186	144	156	118	149	0.167
1987	3.65	72,984	106	115	103	139	173	173	184	182	177	153	122	91	143	0.161
1988	3.70	74,824	94	110	113	141	123	137	135	133	131	112	110	82	119	0.133
1989	3.75	74,932	89	89	75	101	97	134	162	155	153	133	113	96	117	0.131
1990	3.80	79,698	90	88	84	118	124	121	138	128	144	119	110	88	113	0.126
AVERAGE			101	111	104	127	145	170	178	179	175	146	129	102	139	0.156
MAENAME			101	111	104	121	143	170	110	117	113	140	127	102	137	0.150

^{1/} Number of services

Note: Data from 1/81 to 6/81 is estimated.

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

an nivi	CAN MATEC			MATER A	CENCY		CAN DIN	NO CIT	v 05			001018	OF LIATE) /i= -	oncomt) -	
	SAN MATEO				GENCY					THENT		UKIGIN	OF WATE	K (in p	ercent):	
	SAN BRUNO			TYPE OF	AGENCY		MUNICIP	AL WATE	K DEPAK	IMENI						
								_					CE WATE		71	
	IC REGION				BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	29	
	SUBAREA			MY												
DAU #	• • • • • • • • •	• • • • • • • •	. 43					OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION						ΤΥ								
										х		DIEDCH	ASED		71	
					Olli			•••••	• • • • • • •	^			SUPPLIE		29	
1770	••••••	30,701			SERVICE	CONNEC	TIONS	/1				OCLI	JOI 1 L. I.		-	
RESIDENT	TAL .			COMMERC		COMME		INDUSTR	741 -			GOVERNM	ENTAL .			
		10 707			ed	804			ed	6			ed	125		
	d	•				0				0				0		
Flat K	ate	U		Flat	Rate	U		Flat	Rate	U		rtat	Rate	U		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000		4/ 4/7		97.0	10/ 0	10/ 0	142.0	1/2.0	178.0	178.0	171.0	171.0	141.0	4/4.0	1444 6	
1980	14,167	14,167	97.0					133.0					109.0		1550.0	
1981	14,324	14,324		104.0		111.0			170.0	170.0	148.0	148.0				
1982	14,481	14,481	101.0	101.0	104.0	104.0	135.0	135.0	169.0	169.0	155.0	155.0	116.0		1560.0	
1983	14,638	14,638	106.0	106.0	109.0	109.0	137.0	137.0	169.0	169.0	164.0	164.0	130.0		1630.0	
1984	14,795	14,795	115.0	110.0	124.0	122.0	143.0	158.0	151.0	152.0	146.0	147.0	91.0	118.0	1577.0	
1985	14,952	14,952	/5	-	-	-	-	-	-	-	-	•	•	•	•	
1986	15,109	15,109	-	-	-	-	•	-	-	-	-	-	-	-	•	
1987	15,266	15,266	-	-	-	-	•	•	-	-	-	-	-	•	•	
1988	15,423	15,423	116.0	119.0	121.0	146.0	135.0	126.0	136.0	152.0	142.0	126.0	106.0	93.0	1518.0	
1989	15,580	15,580	98.0	94.0	88.0	92.0	104.0	128.0	144.0	153.0	152.0	128.0	96.0	107.0	1384.0	
1990	15,584	15,584	104.0	107.0	97.0	106.0	128.0	124.0	142.0	143.0	148.0	135.0	121.0	117.0	1472.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.50	35,417	88	94	95	98	129	134	162	162	161	156	133	128	129	0.144
1981	2.50	35,810	94	104	100	103	120	124	153	153	138	133	101	98	119	0.133
1982	2.50	36,202	90	100	93	96	120	124	151	151	143	138	107	103	118	0.132
1983	2.50	36,595	93	103	96	99	121	125	149	149	149	145	118	115	122	0.137
1984	2.50	36,988	100	103	108	110	125	142	132	133	132	128	82	103	117	0.131
1985	2.50	37,380	-	-	-	-	-	-		-	-	-	-		-	
1986	2.50	37,773	-	-	-	-	-	-	-	-		•	-	-	-	
1987	2.50	38,166	-	-	-	-	-	-	-	-	-	-	-			
1988	2.50	38,558	97	106	101	126	113	109	114	127	123	105	92	78	108	0.121
1989	2.50	38,951	81	86	73	79	86	110	119	127	130	106	82	89	97	0.109
1990	2.50	38,961	86	98	80	91	106	106	118	118	127	112	104	97	104	0.116
AVERAGE			91	99	93	100	115	122	137	140	138	128	102	101	114	0.128

^{1/} number of service connections estimated. 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

	SAN FRANC							ANCISCO			TY	ORIGIN	OF WATE	R (in p	percent):	
	SAN FRANC				AGENCY		MUNICI	PAL WATE	R DEPA	RTMENT						
													ACE WATE			
	IC REGION				BAY	SYSTI	EM SERV	ES:				WELLS	S AND SE	PRINGS.	. 0	
	SUBAREA															
DAU #	• • • • • • • • • • • • • • • • • • • •		. 43					• • • • • • • •								
								CUTSIDE				SOURCE	OF WATE	R (in p	percent):	
	ISUS POPUL				POF	RTION O	F THE C	ITY		•						
	•••••				OTI	ER	• • • • • • •	• • • • • • • •		•			ASED			
1990	• • • • • • • • •	723,959										SELF	SUPPL II	ED	. 100	
						CONNE	CTIONS	•								
RESIDENT				COMMERC				INDUSTR				GOVERNI				
	d	•			red	•			ed				red			
Flat R	ate	0		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL I	ATER I	NTO SYST	EN (NI	LION G	ALLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	160 266	159,631	2599.n	2412.0	2666.0	2924.0	2728.0	2588.0	2819.0	2673.0	2598 n	2770 0	2523 0	2598 n	31898 n	
1981		159,631														
1982	-	160,119														
1983		160,119														
1984		161,002														
1985		161,537														
1986		161,946														
1987		162,398														
1988	•	163,257														
1989		164,145														
1990		164,450														
		AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)	/3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980		681,675	123	122	126	143	129	127	133	126	127	131	123	123	128	0.144
1981	4.27	684,061	119	119	123	129	134	138	142	138	132	123	118	119	128	0.143
1982	4.28	688,294	114	121	118	124	133	138	141	142	137	130	120	120	128	0.144
1983	4.30	690,687	124	126	127	128	134	148	145	146	143	138	130	130	135	0.151
1984	4.31	696,957	129	127	124	130	143	141	146	141	142	134	124	121	134	0.150
1985	4.33	701,722	134	137	136	138	146	148	143	148	142	133	119	119	137	0.153
1986	4.34	705,491	116	124	90	133	140	146	143	140	135	136	134	130	131	0.146
1987	4.36	709,789	123	130	128	135	141	145	149	140	138	131	127	123	134	0.150
1988	4.37	715,983	124	129	136	135	124	121	118	119	126	109	111	109	122	0.137
1700																
1989	4.39	722,107	107	108	108	113	121	132	136	136	127	126	120	119	121	0.136

^{1/} Number of services

AVERAGE

121 125 121 131 134 137 138 135 133 128 122 120 129 0.144

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COLUTY	SANTA CLA	.04		LIATED A	GENCY		CAL TEOR	MIA DAT	ED CEDV	ICE COM	DANY	001014	OF 1147F	D /:		
	LOS ALTOS				AGENCY.					TUE COM	PANT	OKIGIN	OF WATE	K (in p	ercent):	
	f				HOLHOI			AL CHILL				SLIPFA	CE WATE	P	30	
	IC REGION			NCISCO	RAY	SYSTE	M SERVE	s:					AND SP			
	SUBAREA												7000 01	nina		
					ENT	IRE CIT	γ									
D/W #			-					OUTSIDE				SUI IBUE	OF WATE	P (in r	ercent):	
CLTV CEN	ISUS POPUL	ATTON						ΤΥ				SOOKUL	01 1811	K (III p	er cert.	
										х		DUDCH	ASED		63	
					Olin	LK			• • • • • • • •	^			SUPPLIE			
1770		33,000			SERVICE	CONNEC	TIONS	/1				SELF	SUPPLIE	<i>D</i>	31	
RESIDENT	TAL .			COMMERC		CONNEC	TONS	INDUSTR	TAL .			GOVERNM	ENTAL .			
	d	14 079			ed	1.0/0				24				174		
	ate	•			Rate	•			ed Rate				ed			
rtat K	ate	· ·		rtat	Kate	U		rtat	Rate	U		rtat	Rate	U		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	15,575	15,575	176.0	181.0	209.0	294.0	413.0	483.0	493.0	515.0	429.0	380.0	295.0	223.0	4091.0	
1981	15,610	15,610	199.0	178.0				568.0	559.0			312.0			4172.0	
1982	15,630	15,630	178.0	173.0	185.0				534.0	550.0	443.0	350.0	209.0	198.0	3977.0	
1983	16,954	16,954	208.0		194.0							361.0	238.0		4233.0	
1984	17,001	17,001	209.0	208.0				577.0			533.0		216.0		4751.0	
1985	17,026	17,026	217.0	227.0				605.0				392.0	264.0		4766.0	
1986	17,044	17.044	214.0	189.0				579.0		588.0		415.0	352.0		4794.0	
1987	17, 157	17,157	235.0	217.0	268.0	439.0	559.0	577.0	601.0	598.0	512.0	418.0	254.0	207.0	4885.0	
1988	17,275	17,275	213.0	290.0	401.0	381.0	433.0	497.0			484.0	417.0	281.0	281.0	4808.0	
1989	17,324	17,324	230.0	221.0				458.0				330.0	290.0		4099.0	
1990	17,322	17,322	214.0	188.0	259.0	343.0	346.0	386.0	423.0	432.0	385. 0	363.0-	270.0	223.0	3832.0	
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	ITA WAT	ED LICE	(amod) (7				ANNUALLY	
OF	CONNEC-	TION					PER LAP	TIN MAI	EK USE	(gpcu)/	3					-6
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd	afpca
RECORD		SERVED	JAN	reb	MAK	APR		JUN	JUL	AUG	3EP		NOV	DEC	/3	/4
1980	2.82	43,982	129	142	153	223	303	366	362	378	325	279	224	164	255	0.285
1981	2.85	44,457	144	143	157	266	337	426	406	381	313	226	146	132	257	0.288
1982	2.87	44,890	128	138	133	174	331	344	384	395	329	252	155	142	243	0.272
1983	2.90	49,101	137	125	127	169	267	377	397	356	340	237	162	133	236	0.265
1984	2.92	49,647	136	144	199	257	357	387	407	379	358	228	145	134	262	0.294
1985	2.94	50,130	140	162	158	263	331	402	410	378	302	252	176	145	260	0.292
1986	2.97	50,594	136	133	164	244	325	381	392	375	295	265	232	164	260	0.291
1987	2.99	51,342	148	151	168	285	351	375	378	376	332	263	165	130	261	0.292
1988	3.02	52,112	132	192	248	244	268	318	355	345	310	258	180	174	253	0.283
1989	3.04	52,677	141	150	133	220	256	290	298	288	239	202	184	155	213	0.239
1990	3.06	53,088	130	126	157	215	210	242	257	262	242	221	170	136	198	0.221
AVERAGE			136	146	163	233	303	355	368	356	308	244	176	146	245	0.275

^{1/} Number of services

Note: Los Altos District consists of: Los Altos, Cupertino, Mountain View, Sunnyvale and Los Altos Hills.

^{3/} gpcd - gallons per capita daily

^{2/} Excludes services for egriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

COUNTYSANTA CLARA CITYMILPITAS TYPE OF AGENCYMUNI SYSTEM #	ICIPAL WATER		TMENT			OF WATE	R (in p	ercent):	
SYSTEM #		R DEPAR	TMENT						
HYDROLOGIC REGION SAN FRANCISCO BAY SYSTEM SE PLANNING SUBAREA #SOUTH BAY	ERVES:								
PLANNING SUBAREA #SOUTH BAY	ERVES:						R	100	
					WELLS	AND SP	RINGS	0	
DAU # 44 ENTIRE CITY									
ENTIRE CITY PL			Х		cor in or	05 1475	D 43		
CITY CENSUS POPULATION PORTION OF THE					SUURCE	OF WATE	K (In p	ercent):	
					DUDGU	1050		400	
·	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •						100	
1990 50,686 SERVICE CONNECTION	Ne /1				SELF	SUPPLIE	D	0	
					001 EDIN				
	INDUSTRI		740		GOVERNM		054		
		ed	310			ed			
Flat Rate 0 Flat Rate 0	Flat K	Rate	0		Flat	Rate	0		
YEAR ACTIVE SERVICE TOTAL WATER	R INTO SYSTE	M (MILI	LION GA	LLONS)					
OF CONNECTIONS /2									
	MAY JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980 9,000 9,000 94,0 100,0 110,0 131,0 189	9.0 204.0	217.0	234.0	197.0	172.0	127.0	112.0	1887.0	
	9.0 265.0						116.0	2056.0	
			273.0		182.0				
1983 10,500 10,500 130.0 128.0 138.0 165.0 192			300.0	263.0	190.0	144.0	141.0	2354.0	
1984 10,784 10,784 144.0 145.0 182.0 205.0 288		352.0	324.0	294.0	215.0	161.0	162.0	2793.0	
· · · · · · · · · · · · · · · · · · ·	4.0 344.0			266.0			196.0	2968.0	
· · · · · · · · · · · · · · · · · · ·	5.0 355.0						176.0	3212.0	
	8.0 361.0						206.0		
	8.0 292.0					173.0	194.0	2969.0	
1989 12,734 12,734 170.0 164.0 184.0 204.0 249								2926.0	
1990 12,963 12,963 183.0 180.0 213.0 250.0 292									
PERSONS AVERAGE								-	
	CAPITA WATE	R USE	(ancd)/	3				ANNUALLY	
OF CONNEC- TION	Se in will		, ((ave)					gpcd	afpc
	AAY JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
	161 180	185	200	174	147	112	96	137	0.153
•	178 223	217	193	173	129	96	94	142	0.159
	182 204	223	213	188	142	116	106	149	0.167
	143 203	224	224	203	142	111	105	149	0.167
	211 243	258	237	222	157	122	119	174	0.195
	214 250	238	242	193	170	143	138	177	0.199
	216 251	251	253	195	194	161	120	187	0.209
	234 251	264	236	233	186	133	139	190	0.213
	177 199	196	198	201	152	118	128	166	0.186
	160 219	210	223	182	158	142	141	160	0.179
1990 3.91 50,686 116 127 136 164 1	186 195	196	206	177	158	155	127	162	0.182
AVERAGE 108 118 120 154 1	187 220	224	220	195	158	128	119	163	0.183

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

	SANTA CLA							N VIEW,				ORIGIN	OF WATE	R (in p	ercent):	
	MIATMUON			TYPE OF	AGENCY		MUNICIF	PAL WATE	R DEPAR	TMENT						
		• • • • • • • •										SURFA	CE WATE	R	95	
HYDROLOG	IC REGION		SAN FRA	WC1SCO	BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	5	
PLANNING	SUBAREA	#	SOUTH B	AY												
DAU #			44													
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ	• • • • • • •							
					OTH	ER			• • • • • • •	X		PURCH	ASED		95	
1990		67,460										SELF	SUPPLIE	D	5	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metered	d	12,732		Meter	ed	1,234		Meter	ed	463		Meter	ed	640		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	12,471	12.471	318.0	306.0	332.0	378 O	446 n	495 n	520.0	524 0	468 n	451.0	368 D	310 n	4925 n	
1981	12,966		328.0									408.0				
1982	13,142	13,142														
1983	13,317	13,317														
1984	13,493	13,493										431.0				
1985	13,668	13,668														
1986	13,934	13,934														
1987	14,200	14,200														
1988	14,814	14,814														
1989	14,654	_														
1990	14,715															
				-												
YEAR	PERSONS	POPULA-					DED CAR	TAW ATI	ED LICE	(anod) (7				ANNUALLY	
OF	CONNEC-	TION					FER UN	TIM MAI	EK USE	(Shra)/	,				gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcu /3	/4
				FED				JUN			3CP					
1980	4.70	58,655	175	180	183	215	245	281	286	288	266	248	209	175	230	0.25
1981	4.69	60,829	174	173	172	220	255	302	288	274	252	216	174	163	222	0.24
1982	4.68	61,498	166	174	174	193	266	306	284	297	257	230	176	162		0.25
1983	4.67	62,159	168	161	156	187	236	298	309	301	288	228	184	167	224	0.25
1984	4.66	62,820	169	177	209	229	273	302	314	297	278	221	170	151		0.26
1985	4.64	63,472	159	173	170	227	262	281	291	277	243	213	163	142	217	0.24
1986	4.63	64,542	143	140	152	207	251	278	295	271	228	210	187	153	210	0.23
1987	4.62	65,605	151	156	165	238	257	282	289	282	257	218	155	140	216	0.24
1988	4.61	68,266	140	166	197	199	206	228	238	230	219	174	143	144	191	0.21
1989	4.60		129	142	144	176	200	231	237	228	197	173	154	140	180	0.20
1990	4.58	67,460	142	132	151	182	196	210	224	219	202	182	158	136	178	0.20
AVERAGE			156	161	170	207	241	273	278	270	244	210	170	152	211	0.23

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COLINTY	SANTA CLA	PA		WATER A	GENCY		PALO AL	דם כוד	Y OF			ORIGIA	OF WATE	e (in ~	ercent):	
	PALO ALTO			TYPE OF						TMENT		OKIGIN	OF WATE	C (III p	ercent):	
				TIPE OF	MOCNET		HONICIP	AL WATE	N DEFAK	IFICAL		CHIDEA	CE WATE		100	
				NCISCO	DAV	CVCTE	M SERVE	e.					AND SP		0	
		#			DAT	31312	H SERVE	3.				WELLS	AND SP	KINUS	Ü	
DAU #	• • • • • • • •		44				Υ			X						
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL				POR	TION OF	THE CI	π	• • • • • • •							
	• • • • • • • • • • • • • • • • • • • •	•			ОТН	ER	• • • • • • •	• • • • • • •	• • • • • • •				ASED			
1990	• • • • • • • • • • • • • • • • • • • •	56,000										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed				ed				ed	•		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF RECORD	SYSTEM	TIONS /2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AMARIA	
KELUKU	STSTEM	CITT	JAN	rcs	MAK	APK	MAT	JUN	JUL	AUG	SEP	UCI	MUV	DEC	ANNUAL	
1980	18,799	18 700	271.0	271.0	317.0	404.0	494.0	556.0	575.0	601.0	394.n	465.D	372.0	305.0	5025.0	
1981	18,819	18.819			295.0									288.0		
1982	18,846			265.0								386.0			4815.0	
1983	18,860			275.0												
1984	18,893	•		323.0												
1985	18,962	18,962			402.0		508.0					490.0				
1986	18,989	18,989	322.0		382.0					665.0					5768.0	
1987	18,952	18,952			387.0							492.0				
1988	18,958			351.0											5287.0	
1989	18,839	18,839													4732.0	
1990	18,912			255.0												
	ornowie.	NED405											-			
YEAR	PERSONS	AVERAGE POPULA-					PER CAP	ITA UAT	ED LICE	(anod)/	7				ANNUALLY	
OF	CONNEC-	TION					FER GAF	IIA WAI	ER USE	(gpcu)/	•				gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.94	55,300	158	169	185	244	288	335	335	351	237	271	224	178	249	0.279
1981	2.94	55,395	178	181	172	266	333	368	387	351	324	249	181	168	264	0.295
1982	1 2.95	55,512	162	170	170	170	318	336	338	349	267	224	180	161	238	0.266
1983	2.95	55,589	169	177	171	192	277	374	406	389	366	275	202	175	265	0.297
1984	2.95	55,723	178	200	248	283	386	394	410	404	382	275	195	167	295	0.330
1985	2.95	55,964	180	213	232	291	293	390	397	383	327	282	212	181	282	0.316
1986	2.95	56,080	185	142	220	285	296	314	383	383	349	339	267	208	282	0.316
1987	2.96	56,008	200	203	223	309	357	380	386	383	345	283	195	164	286	0.321
1988	2.96	56,063	167	216	272	255	276	315	365	394	276	242	142	168	258	0.289
1989	2.96	55,747	156	165	158	217	269	326	343	339	267	204	169	174	233	0.260
1990	2.96	56,000	168	163	183	240	231	260	270	271	251	231	193	158	218	0.245
1990																

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SANTA CLA							E, CITY				ORIGIN	OF WATE	R (in p	ercent):	
	.EVERGREEN			TYPE OF	AGENCY	• • • • • • • • • • • • • • • • • • • •	MUNICIF	PAL WATE	R DEPAR	THENT						
	f												CE WATE			
	GIC REGION				BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	15	
PLANNING	SUBAREA	#		BAY												
DAU #			. 44		ENT	IRE CIT	Υ	• • • • • • •	• • • • • • •							
					ENT	IRE CIT	Y PLUS	CUTSIDE	•••••			SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY	•••••							
1980		50,000			ОТН	ER				Х		PURCH	ASED		85	
1990		70,000										SELF	SUPPLIE	D	15	
					SERVICE.	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	12,727		Meter	ed	1,993		Meter	ed	NA		Meter	ed	614		
Flat R	Rate	0		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL L	ATED IN	ITO SYST	EM /MTI	I TON GA	LLOWS					
OF		TIONS /2				. with the		5151								
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
4000		40.044	440.0	400.0	440.0	400.0	250.0	200.0	200.4		770.5	470.5	400.0	445		
1980	10,863							280.0							2234.0	
1981	11,310	11,309	113.0	99.0	112.0	188.0			293.0			170.0	117.0		2247.0	
1982	11,747	11,754	110.0		110.0	137.0		259.0				175.0		117.0	2155.0	
1983	12,204	12,200	118.0	102.0	115.0	145.0		284.0				196.0			2304.0	
1984	12,651	12,645	127.0	130.0	166.0	209.0		322.0				209.0	141.0	143.0	2750.0	
1985	13,098	13,096	142.0	151.0		237.0		352.0				247.0	176.0	162.0	2922.0	
1986	13,334	13,332	153.0	140.0				372.0					234.0		3139.0	
1987	14,040	14,038	172.0	152.0				370.0					176.0		3177.0	
1988	14,688	14,686	172.0	207.0		258.0		345.0						190.0	3342.0	
1989	15,011	15,011	173.0					325.0							3192.0	
1990	15,334	15,332	173.0	155.0	199.0	249.0	284.0	305.0	355.0	350.0	302.0	274.0	207.0	186.0	3039.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4,60	50,009	72	69	72	120	161	187	187	177	153	110	80	74	122	0.137
1981	4.60	52,024	70	68	69	120	146	188	182	172	150	105	75	71	118	0.133
1982	4.60	53,990	66	69	66	85	152	160	169	163	132	105	73	70	109	0,122
1983	4.59	56,043	68	65	66	86	122	169	179	168	159	113	79	74	113	0.126
1984	4.59	58,048	71	77	92	120	169	185	197	183	180	116	81	79	130	0.145
1985	4.58	60,049	76	90	86	132	163	195	198	189	150	133	98	87	133	0.149
1986	4.58	61,081	81	82	95	130	176	203	207	193	151	144	128	95	141	0.158
1987	4.58	64,261	86	84	92	154	177	192	193	196	171	142	91	44	135	0.152
1988	4.57	67,171	83	106	127	128	138	171	200	182	162	142	100	91	136	0.153
1989	4.57	68,591	81	94	109	123	135	158	182	171	153	134	99	88	127	0.143
1990	4.57	70,009	80	79	92	119	131	145	164	161	144	126	99	86	119	0.133
.,,,	7101	, 007		.,	,,,		131	143	107		144		,,	~	117	
AVERAGE			76	80	88	120	152	178	187	178	155	124	91	78	126	0.141

Note: 1980 data is estimated.

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	SANTA CLA				AGENCY					ΙΥ		ORIGIN	OF WATE	R (in p	percent):	
CITY	SAN JOSE,	ET AL		TYPE O	F AGENCY	f	.INVESTO	OR OWNED)							
SYSTEM #	f		. 43011									SURF	ACE WATE	R	. 55	
HYDROLOG	IC REGION		SAN FR	ANCISCO	BAY	SYST	EM SERVE	S:				WELLS	S AND S	PRINGS.	45	
PLANNING	SUBAREA	#	.SOUTH I	BAY												
DAU #			. 44		ENT	TIRE CIT	TY									
					ENT	TIRE CIT	TY PLUS	OUTSIDE		. х		SOURCE	OF WATE	ER (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POF	RTION O	F THE CI	ΙΤΥ								
1980		712,477			OTH	ER						PURCI	ASED		. 47	
1990		873,714										SELF	SUPPLIE	<u></u>	53	
					SERVICE	CONNEC	CTIONS	/1								
RESIDENT	IAL:			COMMER	CIAL:			INDUSTR	IAL:			GOVERNI	MENTAL:			
Metere	d	181,669		Heter	red	18,838		Meter	ed	82		Meter	red	1,413		
	ate				Rate			Flat	Rate	. 0			Rate			
YEAR	ACTIVE	SERVICE				TOTAL I	MATER IN	ITO SYST	EM (MII	LION G	ALLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	184,349	184,349	2254.0	2183.0	2516.0	3071.0	4044.0	4771.0	4894.0	5109.0	4256.0	3785.0	3005.0	2460.0	42348.0	
1981	187,963	187,963	2443.0	2153.0	2367.0	3541.0	4480.0	5520.0	5496.0	5177.0	4359.0	3429.0	2426.0	2329.0	43720.0	
1982	190,158	190,158	2587.0	2162.0	2457.0	2825.0	4065.0	5126.0	5569.0	5224.0	4732.0	3550.0	2569.0	2493.0	43359.0	
1983	191,553	191,553	2355.0	2195.0	2371.0	2795.0	4714.0	4758.0	5146.0	5135.0	4085.0	3436.0	2427.0	2489.0	41906.0	
1984	192,357	•														
1985	193,196	193,196	2642.0	2673.0	2868.0	3813.0	4871.0	5641.0	5816.0	5550.0	4411.0	4006.0	2977.0	2735.0	48003.0	
1986	•	194,840														
1987	196,102	•														
1988	-	197,493														
1989	199,780															
1990	201,150															
	PERSONS	AVERACE													-	
YEAR	PERSUNS	POPULA-					DED CAL	PITA WAT	ED HEE	(mod)	ß				ANNUALLY	
OF	CONNEC-	TION					PER LA	AIR MAI	LR USE	(Specia)	, .,				gpcd	.4
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	af
	1104										JLF					
1980	3.86	712,477	102	106	114	144	183	223	222	231	199	171	141	111	163	0.1
1981	3.91	735,444	107	105	104	160	197	250	241	227	198	150	110	102	163	0.1
1982	3.96	753,136	111	103	105	125	174	227	239	224	209	152	114	107	158	0.1
1983	4.01	767,832	99	102	100	121	198	207	216	216	177	144	105	105	150	0.1
1984	4.06	780,264	106	112	137	165	216	227	243	225	214	149	115	105	169	0.1
1985	4.10	792,917	107	120	117	160	198	237	237	226	185	163	125	111	166	0.1
1986	4.15	808,993	106	108	120	158	200	230	236	224	178	165	144	118	166	0.1
1987	4.20	823,621	113	112	119	180	209	226	227	227	203	167	116	109	168	0.1
1988	4.25	838,919	105	131	154	154	167	197	222	210	190	162	121	114	161	0.1
1989	4.30	858,198	104	106	100	129	146	163	166	161	141	124	112	106	130	0.1
1990	4.34	873,714	96	94	108	129	138	149	163	163	150	138	115	101	129	0.1
AVERAGE			105	109	116	148	184	212	219	212	186	153	120	108	156	0.1
			.03	107	. 10	,-10	104	-12	-17	-12	,50	,,,,	.20	,50	150	٠.١

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	SANTA CLA	RA		WATER A	GENCY		SANTA (CLARA, C	ITY OF			ORIGIN	OF WATE	R (in p	percent):	
CITY	SANTA CLA	RA		TYPE OF	AGENCY		MUNICI	PAL WATE	R DEPAR	THENT						
SYSTEM #	£		43012									SURFA	CE WATE	R	. 38	
HYDROLOG	IC REGION		SAN FRA	ANCISCO	BAY	SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	62	
PLANNING	SUBAREA	#	SOUTH E	BAY												
DAU #			. 44		ENT	IRE CIT	γ	• • • • • • •		. х						
					ENT	IRE CIT	Y PLUS	CUTSIDE				SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE C	ITY								
1980		87,633			ОТН	ER						PURCH	ASED		38	
1990		93,800										SELF	SUPPLIE	D	62	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	RIAL:			GOVERNM	ENTAL:			
Metere	d	20,370		Meter	ed	2,534		Meter	ed	465		Meter	ed	333		
Flat R	ate	. 0		Flat	Rate	. 0			Rate			Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL &	ATER II	NTO SYST	TEM (MIL	LION G	ALLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	23,125	23,125	461.0	492.0	520.0	724.0	703.0	1005.0	816.0	863.0	941.0	709.0	738.0	495.0	8467.0	
1981	23,343	23,343	599.0	513.0	528.0	669.0	929.0	892.0	906.0	864.0	987.0	682.0	638.0	486.0	8693.0	
1982	23,455	23,455	588.0	531.0	543.0	571.0	923.0	873.0	841.0	879.0	957.0	704.0	658.0	486.0	8554.0	
1983	23,295	23,295	617.0	475.0	544.0	637.0	902.0	959.0	906.0	959.0	1110.0	754.0	745.0	550.0	9158.0	
1984	22,431	22,431	683.0	629.0	775.0	819.0	1034.0	1063.0	1114.0	1087.0	1038.0	843.0	667.0	617.0	10369.0	
1985	22,566	22,566	656.0	693.0	695.0	790.0	977.0	1068.0	1073.0	1022.0	893.0	841.0	668.0	581.0	9957.0	
1986	22,898	22,898	647.0	582.0	707.0	815.0	988.0	1067.0	1135.0	1092.0	913.0	855.0	771.0	654.0	10226.0	
1987	22,906	22,906	628.0	612.0	750.0	934.0	1010.0	1146.0	1150.0	1143.0	1018.0	960.0	676.0	643.0	10670.0	
1988	22,959	22,959	694.0	722.0	922.0	819.0	944.0	1040.0	1083.0	1009.0	934.0	861.0	682.0	646.0	10356.0	
1989	22,896	22,896	636.0	581.0	591.0	682.0	715.0	768.0	804.0	813.0	735.0	616.0	591.0	568.0	8100.0	
1990	23,031	23,031	549.0	506.0	657.0	628.0	729.0	749.0	747.0	810.0	770.0	697.0	598.0	548.0	7988.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAL	PITA WAT	TER USE	(apped)	73				ANNUALLY	
OF	CONNEC-	TION									_				gpcd	afpc
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.79	87,633	170	194	191	275	259	382	300	318	358	261	281	182	265	0.296
1981	3.82	89,120	217	206	191	250	336	334	328	313	369	247	239	176	267	0.299
1982	3.85	90,212	210		194	211	330		301	314	354	252	243	174	260	0.291
1983	3.87	90,257	221		194	235	322	354	324	343	410	269	275	197	278	0.311
1984	3.90	87,544	252	248	286	312	381	405	410	401	395	311	254	227	325	0.363
1985	3.93	88,710	239		253	297	355	401	390	372	336	306	251	211	308	0.344
1986	3.96	90,664	230	229	252	300	352	392	404	389	336	304	283	233	309	0.346
1987	3.99	91,345	222		265	341	357	418	406	404	371	339	247	227	320	0.358
1988	4.02	92,206	243	270	323	296	330	376	379	353	338	301	247	226	308	0.345
1989	4.04	92,602	222		206	245	249		280	283	265	215	213	198	240	0.268
1990	4.07	93,800	189		226	223	251		257	279	274	240	213	188	233	0.261
AVERAGE			219	225	235	271	320	357	344	342	346	277	250	204	283	0.317

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

	SANTA CLA				GENCY							ORIGIN	OF WATE	R (in p	percent):	
	SUNNYVALE			TYPE OF	AGENCY	• • • • • • • •	MUNICI	PAL WATE	R DEPAR	THENT						
	F												CE WATE			
	IC REGION				BAY	SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	. 20	
	SUBAREA			IAY												
DAU #		•••••	. 44					• • • • • • •								
								OUTSIDE				SOURCE	OF WATE	R (in p	percent):	
	ISUS POPUL				POR	TION OF	THE C	ιτγ								
					ОТН	ER		• • • • • • •		. х			ASED			
1990		117,229										SELF	SUPPLIE	D	. 20	
					SERVICE	CONNEC	CTIONS									
RESIDENT	IAL:			COMMERC				INDUSTI				GOVERNM				
Metere	d	24,180			ed				red				ed			
Flat R	late	. 0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER II	NTO SYS	TEM CMIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
					445									445.5		
1980	26,403														9313.0	
1981	26,500														8897.0	
1982	26,550	•													8755.0	
1983	26,575														9063.0	
1984	26,800														10004.0	
1985	26,850				620.0										9837.0	
1986	26,900														9983.0	
1987	27,000														10085.0	
1988	27,088														9161.0	
1989	27,546														7750.0	
1990	27,434	27,434	491.0	441.0	561.0	617.0	667.0	770.0	792.0	805.0	716.0	6/8.0	576.0	492.0	7606.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WA	TER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.05	106,932	172	182	186	236	268	314	285	297	276	248	205	186		0.267
1981		107,916	173	174	161	229	267			269	271	219	171	162		0.253
1982		108,712	150		153	198	266			290	262	211	166	171		0.247
1983		109,408	162	163	156	192					287	223	177	169		0.254
1984		110,932	172			243				323	286	221	194	156		0.277
1985		111,738				247	295			305	259	245	180	163		0.270
1986		112,546	178		177	251	271				276	245	234	172		0.272
1987		113,567			180	257				290	282	250	177	167		0.272
1988		114,542				231				257	251	209	176	166		0.245
1989		117,093				178				225	194	176	164	151		0.203
1990		117,229		134	154	175					204	187	164	135		0.199
,,,,	7.61	111,007	,33			.,,,			_10			.51	.54	.55		
AVERAGE			164	173	176	222	254	294	293	282	259	221	183	163	224	0.251

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	ALAMEDA				GENCY				ER SERV	ICE COM	PANY	ORIGIN	OF WATE	R (in p	ercent):	
	LIVERMORE			TYPE OF	AGENCY	• • • • • • •	INVESTO	R OHNED								
		• • • • • • • • • • • • • • • • • • • •											CE WATE			
					BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	35	
		#		AY												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	45				Υ									
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL				POR	TION OF	THE CI	ΤΥ	• • • • • • •	х						
	• • • • • • • • •	-			OTH	ER	• • • • • • •	• • • • • • •	• • • • • •			PURCH	ASED		65	
1990		56,741										SELF	SUPPLIE	D	35	
					SERVICE	CONNEC										
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	12,831		Meter	ed	684		Meter	ed	6		Heter	ed	128		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF RECORD	SYSTEM	TIONS /2	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	313164		JAN	rco	PIAK	APR	PAI	JUN	JUL	AUG	SCP		NOV	DEC	ANNUAL	
1980	12,665	12,665	111.0	111.0	136.0	165.0	230.0	269.0	286.0	286.0	231.0	195.0	143.0	111.0	2274.0	
1981	12,706	12,706	107.0	100.0	113.0	181.0	247.0	310.0	322.0	287.0	237.0	172.0	108.0	108.0	2292.0	
1982	12,757	12,757	112.0	104.0	110.0	139.0	258.0	282.0	319.0	321.0	227.0	190.0	121.0	124.0	2307.0	
1983	12,881	12,881	124.0	100.0	112.0	135.0	210.0	292.0	404.0	313.0	274.0	191.0	135.0	126.0	2416.0	
1984	13,133	13,133	127.9	125.5	167.6	208.0	297.9	323.6	404.0	313.0	274.0	191.0	135.0	126.0	2693.5	
1985	13,236	13,236	126.0	130.0	145.0	212.0	291.0	356.0	380.0	341.0	319.0	198.0	130.0	126.0	2754.0	
1986	13,398	13,398									260.0				2718.0	
1987	13,430	13,430	130.0	106.0	137.0	242.0	315.0	343.0	356.0	358.0	316.0	256.0	134.0	129.0	2822.0	
1988	13,644	•		158.0			255.0			343.0					2813.0	
1989	13,738	13,738	135.0	126.0									199.0	180.0	2842.0	
1990	17,345	14,000	162.0	138.0	161.0	229.0	264.0	299.0	359.0	349.0	299.0	249.0	172.0	117.0	2798.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000																
1980	3.33	42,174	85	91	104	130	176	213	219	219	183	149	113	85	148	0.16
1981	3.40	43,229	80	83	84	140	184	239	240	214	183	128	83	81	145	0.163
1982	3.47	44,325	82	84	80	105	188	212	232	234	171	138	91	90	143	0.16
1983	3.55	45,687	88	78	79	98	148	213	285	221	200	135	98	89	145	0.16
1984	3.62	47,530	87	91	114	146	202	227	274	212	192	130	95	86	155	0.174
1985	3.69	48,860	83	95	96	145	192	243	251	225	218	131	89	83	154	0.173
1986	3.76	50,427	77	78	92	135	178	219	234	222	172	150	123	86	148	0.16
1987	3.84	51,518	81	73	86	157	197	222	223	224	204	160	87	81	150	0.16
1988	3.91	53,325	79	102	125	128	154	188	221	207	195	146	95	87	145	0.16
1989	3.98	54,686	80	82	80	130	163	204	221	213	168	136	121	106	142	0.15
1990	4.05	70,298	74	70	74	109	121	142	165	160	142	114	82	54	109	0.122
						129	173	211	233	214				84		

^{1/} Number of services

3/ gpcd - gallons per capita daily

4/ afpca - acre-feet per capite annually

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

COUNTY	ALAMEDA		1	HATER AC	SENCY		DUBLIN/	SAN RAM	ON CSD		4	ORIGIN C	F WATER	(in p	ercent):	
CITY	DUBLIN/SA	N RAMON		TYPE OF	AGENCY.		PUBLIC	WATER D	ISTRICT							
SYSTEM #			1009									SURFAC	E WATER		100	
HYDROLOG	IC REGION		SAN FRA	NCISCO E	BAY	SYSTE	4 SERVE	S:				WELLS	AND SPE	INGS	0	
PLANNING	SUBAREA	#	SOUTH B.	AY												
DAU #			45		ENT.	RE CIT	۲									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE (OF WATER	(in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		13,496			OTH	ER	• • • • • •			X		PURCHA	ASED		100	
1990		23,229										SELF S	SUPPL I EI		0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNME	ENTAL:			
Metere	d	5,517		Meter	ed	302		Meter	ed	NA		Metere	ed	214		
Flat R	ate	- 0		Flat i	Rate	0		Flat	Rate	0		Flat F	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	TO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,050	4,050	36.0	37.0	42.0	52.0	68.0	89.0	76.0	99.0	83.0	77.0	52.0	40.0	751.0	
1981	4,167	4,167	39.0	35.0	45.0	62.0	85.0	112.0	115.0	107.0	84.0	61.0	44.0	40.0	829.0	
1982	4,283	4,283	42.0	36.0	41.0	48.0	88.0	88.0	99.0	104.0	75.0	64.0	43.0	42.0	770.0	
1983	4,400	4,400	42.0	36.0	43.0	50.0	65.0	118.0	115.0	116.0	100.0	73.0	51.0	47.0	856.0	
1984	4,550	4,550	45.0	43.0	57.0	67.0	104.0	117.0	136.0	127.0	115.0	67.0	44.0	50.0	972.0	
1985	5,164	5,164	51.0	52.0	58.0	76.0	102.0	112.0	133.0	106.0	87.0	78.0	65.0	57.0	977.0	
1986	5,686	5,686	57.0	53.0	65.0	88.0	115.0	135.0	148.0	142.0	108.0	105.0	88.0	69.0	1173.0	
1987	5,802	5,802	66.0	58.0	68.0	98.0	118.0	131.0	136.0	144.0	123.0	103.0	85.0	58.0	1188.0	
1988	5,914	5,914	57.0	70.0	89.0	92.0	105.0	122.0	147.0	143.0	132.0	106.0	70.0	63.0	1196.0	
1989	5,963	5,963	60.0	55.0	61.0	93.0	126.0	138.0	165.0	160.0	127.0	101.0	86.0	78.0	1250.0	
1990	6,014	6,014	70.0	61.0	79.0	108.0	122.0	132.0	156.0	155.0	134.0	118.0	89.0	74.0	1298.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	/3	14
1980	3.33	13,496	86	95	100	128	163	220	182	237	205	184	128	96	152	0.171
1981	3.39	14,107	89	89	103	147	194	265	263	245	198	139	104	91	161	0.180
1982	3.44	14,727	92	87	90	109	193	199	217	228	170	140	97	92	143	0.160
1983	3.49	15,362	88	84	90	108	136	256	241	244	217	153	111	99	153	0.171
1984	3.54	16,127	90	92	114	138	208	242	272	254	238	134	91	100	165	0.185
1985	3.60	18,577	89	100	101	136	177	201	231	184	156	135	117	99	144	0.161
1986	3.65	20,756	89	91	101	141	179	217	230	221	173	163	141	107	155	0.173
1987	3.70	21,487	99	96	102	152	177	203	204	216	191	155	132	87	151	0.170
1988	3.76	22,216	83	109	129	138	152		213	208	198	154	105	91	147	0.165
1989	3.81	22,716	85	86	87	136	179	203	234	227	186	143	126	111	151	0.169
1990	3.86	23,229	97	94	110	155	169	189	217	215	192	164	128	103	153	0.171

^{1/} Number of services

AVERAGE

3/ gpcd - gallons per capita daily

90 93 102 135 175 216 228 225 193 151 116 98 152 0.171

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

COUNTY	ALAMEDA				GENCY							ORIGIN	OF WATE	Ř (in p	ercent):	
CITY	PLEASANTO	ON		TYPE OF	AGENCY		MUNICIP	AL WATE	R DISTR	ICT						
												SURFA	CE WATE	R	68	
					BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	32	
PLANNING	SUBAREA	#	SOUTH E	BAY												
DAU #			45		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		35,160			ОТН	ER						PURCH	ASED	• • • • • • •	68	
1990		50,570										SELF	SUPPLIE	D	32	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	15,058		Meter	ed	754		Meter	ed	37		Meter	ed	226		
Flat R	tate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	396		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF RECORD	SYSTEM	TIONS /2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
RECORD	313104			160		AFR.	1941			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JEF			DEC	ANNUAL	
1980	10,013	9,764	105.0	104.0	123.0	159.0	208.0	262.0	289.0	288.0	239.0	204.0	154.0	117.0	2252.0	
1981	10,139	9,883	110.0	100.0	115.0	179.0	246.0	350.0	360.0	310.0	241.0	172.0	117.0	117.0	2417.0	
1982	10,336	10,078	116.0	109.0	129.0	141.0	262.0	281.0	319.0	328.0	227.0	189.0	117.0	122.0	2340.0	
1983	10,616	10,356	124.0	105.0	121.0	142.0	217.0	306.0	345.0	343.0	333.0	221.0	142.0	119.0	2518.0	
1984	11,464	11,202	124.0	138.0	192.0	234.0	358.0	408.0	455.0	423.0	389.0	229.0	148.0	142.0	3240.0	
1985	12,804	12,542	143.0	160.0	188.0	269.0	381.0	478.0	503.0	469.0	371.0	281.0	163.0	148.0	3554.0	
1986	13,485	13,223	152.0	132.0	167.0	271.0	394.0	464.0	514.0	488.0	368.0	336.0	252.0	190.0	3728.0	
1987	14,151	13,889	167.0	157.0	195.0	349.0	440.0	508.0	533.0	530.0	443.0	352.0	187.0	156.0	4017.0	
1988	14,762	14,500	164.0	221.0	309.0	307.0	383.0	453.0	565.0	551.0	489.0	391.0	227.0	215.0	4275.0	
1989	15,677	15,415	190.0	175.0	188.0	310.0	444.0	537.0	609.0	590.0	446.0	350.0	263.0	222.0	4324.0	
1990	16,195	15,933	213.0	194.0	272.0	381.0	472.0	527.0	627.0	619.0	513.0	450.0	320.0	230.0	4818.0	
	PERSONS	AVERAGE				·										
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.60	36,057	94	99	110	147	186	242	259	258	221	183	142	105	171	0.192
1981	3.56	36,077	98	99	103	165	220	323	322	277	223	154	108	105	184	0.206
1982	3.52	36,337	103	107	115	129	233	258	283	291	208	168	107	108	176	0.198
1983	3.47	36,868	108	102	106	128	190	277	302	300	301	193	128	104	187	0.210
1984	3.43	39,323	102	121	158	198	294	346	373	347	330	188	125	116	226	0.253
1985	3.39	43,373	106	132	140	207	283	367	374	349	285	209	125	110	224	0.251
1986	3.34	45,104	109	105	119	200	282	343	368	349	272	240	186	136	226	0.254
1987	3.30	46,727	115	120	135	249	304	362	368	366	316	243	133	108	236	0.264
1988	3.26	48,114	110	158	207	213	257	314	379	369	339	262	157	144	243	0.273
1989	3.22	50,427	122	124	120	205	284	355	390	377	295	224	174	142	235	0.263
1990	3.17	51,402	134	135	171	247	296	342	393	388	333	282	208	144	257	0.288
AVERAGE			109	118	135	190	257	321	346	334	284	213	145	120	215	0.241

^{1/} Number of aervices 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	CONTRA CO	STA			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	ANTIOCH			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	THENT						
		• • • • • • • • •										SURFA	CE WATE	R	100	
IYDROLOG!	IC REGION		SAN FRA	MC12CO	BAY	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
LANNING	SUBAREA	#	SOUTH B	MY												
AU #			46		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		x		SOURCE	OF WATE	R (in p	ercent):	
ITY CENS	SUS POPUL	ATION			POR	TION OF	THE CI	η								
1980		43,559			OTH	ER						PURCH	ASED		64	
1990		62,195										SELF	SUPPLIE	D	36	
					SERVICE	CONNEC	TIONS	/1								
ESIDENTI	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Hetered	d	17,893		Heter	ed	563		Heter	ed	16		Heten	ed	74		
Flat Re	ate	0		Flat	Rate	0		Flat I	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	13.037	13,016													2332.0	
1981	13,414	13,393												135.0		
	13,628	13,607														
1983	13,917				138.0									140.0		
1984	14,395	14,380										211.0				
1985	14,762	14,748												165.0		
1986	15.304				186.0									190.0		
1987	15,804			153.0						408.0						
1988	16,304	16,804														
1989	17,552	17,541														
1990	18,801	18,791														
	,															
	PERSONS															
YEAR «		POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
	3.35	43.629	89	92	101	128	169	195	205	207	183	151	127		146	
1980	3.35	43,629	89	92	101	128				207		151		104	146	0.1
1980 1981	3.35 3.34	43,629 44,842	89 100	92 99	101 100	128 158	204	247	199	207 201	179	151 147	124	104 97	146 155	0.1
1980 1981 1982	3.35 3.34 3.34	43,629 44,842 45,507	89 100 96	92 99 93	101 100 90	128 158 115	204 194	247 204	199 237	207 201 225	179 199	151 147 137	124 113	104 97 96	146 155 150	0.1 0.1 0.1
1980 1981 1982 1983	3.35 3.34 3.34 3.34	43,629 44,842 45,507 46,421	89 100 96 99	92 99 93 95	101 100 90 96	128 158 115 110	204 194 169	247 204 226	199 237 218	207 201 225 213	179 199 168	151 147 137 138	124 113 101	104 97 96 97	146 155 150 145	0.1 0.1 0.1 0.1
1980 1981 1982 1983 1984	3.35 3.34 3.34 3.34 3.33	43,629 44,842 45,507 46,421 47,962	89 100 96 99 94	92 99 93 95 96	101 100 90 96 120	128 158 115 110 160	204 194 169 217	247 204 226 238	199 237 218 225	207 201 225 213 215	179 199 168 195	151 147 137 138 142	124 113 101 104	104 97 96 97 93	146 155 150 145 159	0.1 0.1 0.1 0.1
1980 1981 1982 1983 1984 1985	3.35 3.34 3.34 3.33 3.33	43,629 44,842 45,507 46,421 47,962 49,131	89 100 96 99 94 99	92 99 93 95 96 112	101 100 90 96 120 113	128 158 115 110 160 164	204 194 169 217 217	247 204 226 238 251	199 237 218 225 260	207 201 225 213 215 236	179 199 168 195 201	151 147 137 138 142 166	124 113 101 104 127	104 97 96 97 93 108	146 155 150 145 159 172	0.1 0.1 0.1 0.1 0.1
1980 1981 1982 1983 1984 1985 1986	3.35 3.34 3.34 3.34 3.33 3.33	43,629 44,842 45,507 46,421 47,962 49,131 50,879	89 100 96 99 94 99 107	92 99 93 95 96 112 106	101 100 90 96 120 113 118	128 158 115 110 160 164 180	204 194 169 217 217 216	247 204 226 238 251 252	199 237 218 225 260 256	207 201 225 213 215 236 243	179 199 168 195 201 199	151 147 137 138 142 166 174	124 113 101 104 127 158	104 97 96 97 93 108 120	146 155 150 145 159 172 178	0.1 0.1 0.1 0.1 0.1 0.1
1980 1981 1982 1983 1984 1985 1986 1987	3.35 3.34 3.34 3.33 3.33 3.32 3.32	43,629 44,842 45,507 46,421 47,962 49,131 50,879 52,483	89 100 96 99 94 99 107 115	92 99 93 95 96 112 106	101 100 90 96 120 113 118 123	128 158 115 110 160 164 180 196	204 194 169 217 217 216 215	247 204 226 238 251 252 254	199 237 218 225 260 256 253	207 201 225 213 215 236 243 251	179 199 168 195 201 199 198	151 147 137 138 142 166 174 181	124 113 101 104 127 158 187	104 97 96 97 93 108 120 132	146 155 150 145 159 172 178 185	0.1 0.1 0.1 0.1 0.1 0.1 0.1
1980 1981 1982 1983 1984 1985 1986 1987 1988	3.35 3.34 3.34 3.33 3.33 3.33 3.32 3.32	43,629 44,842 45,507 46,421 47,962 49,131 50,879 52,483 54,083	89 100 96 99 94 99 107 115	92 99 93 95 96 112 106 104 109	101 100 90 96 120 113 118 123 115	128 158 115 110 160 164 180 196	204 194 169 217 217 216 215 219	247 204 226 238 251 252 254 254	199 237 218 225 260 256 253 257	207 201 225 213 215 236 243 251 247	179 199 168 195 201 199 198 213	151 147 137 138 142 166 174 181 179	124 113 101 104 127 158 187 158	104 97 96 97 93 108 120 132 125	146 155 150 145 159 172 178 185 182	0.16 0.16 0.16 0.16 0.17 0.19 0.20
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	3.35 3.34 3.34 3.33 3.33 3.32 3.32 3.32 3.32	43,629 44,842 45,507 46,421 47,962 49,131 50,879 52,483 54,083 58,159	89 100 96 99 94 99 107 115 115	92 99 93 95 96 112 106 104 109	101 100 90 96 120 113 118 123 115	128 158 115 110 160 164 180 196 187	204 194 169 217 217 216 215 219 214	247 204 226 238 251 252 254 254 243	199 237 218 225 260 256 253 257 249	207 201 225 213 215 236 243 251 247 233	179 199 168 195 201 199 198 213 217	151 147 137 138 142 166 174 181 179 169	124 113 101 104 127 158 187 158 125	104 97 96 97 93 108 120 132 125 114	146 155 150 145 159 172 178 185 182 172	0.16 0.16 0.16 0.17 0.19 0.26 0.26
1980 1981 1982 1983 1984 1985 1986 1987 1988	3.35 3.34 3.34 3.33 3.33 3.33 3.32 3.32	43,629 44,842 45,507 46,421 47,962 49,131 50,879 52,483 54,083 58,159	89 100 96 99 94 99 107 115	92 99 93 95 96 112 106 104 109	101 100 90 96 120 113 118 123 115	128 158 115 110 160 164 180 196	204 194 169 217 217 216 215 219	247 204 226 238 251 252 254 254	199 237 218 225 260 256 253 257	207 201 225 213 215 236 243 251 247	179 199 168 195 201 199 198 213	151 147 137 138 142 166 174 181 179	124 113 101 104 127 158 187 158	104 97 96 97 93 108 120 132 125	146 155 150 145 159 172 178 185 182	0.16 0.16 0.16 0.16 0.17 0.19 0.20

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

OF RECORD S	REGION RUBAREA : S POPUL. L: CONNEC SYSTEM 45,832	#	7003 San Fra South I	COMMERC Neter	ENT ENT POR OTH SERVICE	SYSTE IRE CIT IRE CIT TION OF ER CONNEC	EM SERVI	CUTSIDIITY/1 INDUSTI				SURFA WELLS SOURCE PURCH	CE WATER AND SPR	R RINGS	0 percent):	
HYDROLOGIC PLANNING SL DAU # CITY CENSUS 1980 1990 RESIDENTIAL Metered Flat Rate YEAR OF RECORD S 1980 4	REGION RUBAREA S POPUL L: CONNEC SYSTEM 45,832	#	SAN FRI SOUTH I	COMMERC Neter	ENT ENT POR OTH SERVICE IIAL: ed	IRE CITIER CITIER CITIER CITIER CITIER CITIER CONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTONNECTO	IY IY PLUS ITHE C	OUTSIDE	RIAL:			SOURCE PURCH SELF	OF WATER	RINGS	0 percent):	
PLANNING SL DAU # CITY CENSUS 1980 1990 RESIDENTIAL Metered Flat Rate YEAR OF RECORD S 1980 4	L: ACTIVE: CONNECTOR	#	SOUTH (COMMERC Neter	ENT ENT POR OTH SERVICE IIAL: ed	IRE CITIER CITIER CITIER CITIER CITIER CITIER CONNECTED CONNECTED CONNECTED CONNECTED CITIER	IY IY PLUS ITHE C	OUTSIDE	RIAL:			SOURCE PURCH SELF	of Water Ased Supplie	R (in p	percent):	
DAU # CITY CENSUS 1980 1990 RESIDENTIAL Metered Flat Rate YEAR A OF RECORD S	L: ACTIVE: CONNECTOR SYSTEM	ATION 170,000 190,000 50,169 0 SERVICE TIONS /2	46	COMMERC Meter	ENT POR OTH SERVICE CIAL: red	TION OF ER	Y PLUS	OUTSIDE	RIAL:			PURCH	ASED Supplie		100	
1980 RESIDENTIAL Metered Flat Rate YEAR OF RECORD S	L: ACTIVE: CONNEC SYSTEM 45,832	170,000 190,000 50,169 0 SERVICE TIONS /2		COMMERC Meter	ENT POR OTH SERVICE CIAL: red	TION OF ER	Y PLUS	OUTSIDE	RIAL:			PURCH	ASED Supplie		100	
1980 1990 RESIDENTIAL Metered. Flat Rate YEAR A OF RECORD S	ACTIVE: CONNECTORN	170,000 190,000 50,169 0 SERVICE TIONS /2	, AM	COMMERC Meter	POR OTH SERVICE SIAL: red Rate	CONNEC	THE C	/1 INDUSTI	ilal:			PURCH	ASED Supplie		100	1
1980 1990 RESIDENTIAL Metered. Flat Rate YEAR A OF RECORD S	ACTIVE: CONNECTORN	170,000 190,000 50,169 0 SERVICE TIONS /2	, AAU	COMMERC Meter	SERVICE SIAL: red Rate	CONNEC 2,613	•••••	/1 INDUSTI	RIAL:			PURCH	ASED Supplie		100	
1990 RESIDENTIAL Metered Flat Rate YEAR A OF RECORD S	ACTIVE : CONNECTOR	190,000 50,169 0 SERVICE TIONS /2	, AM	COMMERC Meter	SERVICE SIAL: red Rate	CONNEC 2,613	•••••	/1 INDUSTI	RIAL:			SELF	SUPPLIE			
1990 RESIDENTIAL Metered Flat Rate YEAR A OF RECORD S	ACTIVE : CONNECTOR	190,000 50,169 0 SERVICE TIONS /2	JAN	COMMERC Meter	SERVICE SIAL: red Rate	CONNEC		/1 INDUSTI	IIAL:			SELF	SUPPLIE			
RESIDENTIAL Metered Flat Rate YEAR A OF RECORD S	ACTIVE : CONNECTOR SYSTEM	50,169 0 SERVICE TIONS /2	JAN	COMMERC Meter	ed Rate	2,613	TIONS	INDUSTI								
Metered Flat Rate YEAR A OF RECORD S	ACTIVE : CONNECTOR SYSTEM 45,832	0 SERVICE TIONS /2	JAN	Meter	ed Rate	-		Heter				CONFRAN	ENTAL .			
YEAR A OF RECORD S	ACTIVE : CONNECTON SYSTEM 45,832	0 SERVICE TIONS /2	JAN		Rate	-			erl				ENTAL:			
YEAR A OF RECORD S	ACTIVE : CONNECTOR SYSTEM 45,832	SERVICE TIONS /2	JAN		Rate	-			WAG	19		Meter	ed	204		100
OF RECORD S	CONNECTOR SYSTEM	TIONS /2	JAN					Flat	Rate				Rate	0		
OF RECORD S	CONNECTOR SYSTEM	TIONS /2	JAN.													
RECORD S	SYSTEM 45,832		JAN			TOTAL &	MTER II	NTO SYST	EN (MIL	LION GA	ILLONS)				1.	
1980 4	45,832			FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANDEJA	
1981 4	11 010	45,832	468.0	462.0	544.0	686.0	890.0	1082.0	1166.0	1160.0	967.0	881.0	699.0	584.0	9589.0	
	46,912	46,912	566.0	480.0	551.0	811.0	1143.0	1419.0	1418.0	1310.0	1087.0	808.0	576.0	567.0	10736.0	
1982 4	47,440	47,440	484.0	421.0	474.0	664.0	1197.0	1190.0	1339.0	1337.0	1019.0	892.0	526.0	519.0	10062.0	
1983 4	47,474	47,474	528.0	466.0	516.0	634.0	1001.0	1236.0	1383.0	1376.0	1220.0	868.0	578.0	552.0	10358.0	
1984 4	48,960	48,960	578.0	555.0	748.0	920.0	1308.0	1373.0	1569.0	1445.0	1337.0	892.0	597.0	584.0	11906.0	
1985 5	50,447	50,447	574.0	606.0	661.0	962.0	1269.0	1463.0	1594.0	1453.0	1164.0	1020.0	694.0	605.0	12065.0	
1986 5	50,910	50,910	596.0	528.0	674.0	939.0	1270.0	1459.0	1584.0	1536.0	1165.0	1049.0	918.0	721.0	12439.0	
1987 5	52,307	52,307	658.0	588.0	710.0	1151.0	1399.0	1504.0	1579.0	1564.0	1328.0	1065.0	635.0	596.0	12777.0	
1988 5	53,006	53,006	611.0	701.0	946.0	911.0	1049.0	1174.0	1476.0	1385.0	1242.0	1013.0	686.0	646.0	11840.0	
1989 5	54,208	54,208	615.0	558.0	584.0	890.0	1198.0	1336.0	1531.0	1404.0	1072.0	915.0	768.0	693.0	11564.0	
1990 5	54,538	54,538	626.0	566.0	730.0	965.0	1130.0	1286.0	1486.0	1452.0	1274.0	1124.0	812.0	656.0	12107.0	
PE	ERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA MAT	ER USE	(gpcd)/	3				ANNUALLY	
OF CO	ONNEC-	TION													gpcd	afp
	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOA	DEC	/3	11 /4
1980		170,000	89	94	103	135	169	212	221	220	190	167	137	111	155	0.17
1981		172,949	106	99	103	156	213	273	264	244	210	151	111	106		0.19
1982		173,826	90	86	88	127	222	228	248	248	195	166	101	96	159	0.17
1983		172,880	99	96	96	122	187	238	258	257	235	162	111	103	164	
1984		177,188	105	108	136	173	238	258	286	263	252	162	112	106	184	
1985		181,433	102	119	118	177	226	269	283	258	214	181	128	108	182	0.20
1986		181,951	106	104	119	172	225	267	281	272	213	186	168	128	187	
1987		185,764	114	113	123	207	243	270	274	272	238	185	114	103	188	
1988		187,052	105	129	163	162	181	209	255	239	221	175	122	111	173	
1989		190,072	104	105	99	156	203		260	238	188	155	135	118	167	-
1990		190,000	106		124	169	192		252	247	224	191	142	111	175	0.19
AVERAGE			102	105	116	160	209	244	262	251	216	171	126	109	173	0.19

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

COLINTY	ALAMEDA C	CONTRA COS	TA	UATER A	GENCY		EAST BA	Y MUNIC	IPAL UTI	II ITY D	IST.	ORIGIN	OF WATER	(in ne	rcent):	
	OAKLAND.						PUBLIC					OKIGIN	O1 WATE	((iii pe	cent).	
												SURFA	CE WATER	2	NA	
				NCISCO	BAY	SYSTE	N SERVE	S:					AND SPE		NA	
		#														
DAU #			46	47	ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATER	(in pe	rcent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ								
1980		1043000			ОТН	ER				x		PURCH.	ASED		NA	
1990		1100000										SELF	SUPPL I E		NA	
				1	SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Hetere	d	330636		Heter	ed	19744		Heter	ed	3927		Heter	ed	3927		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
Name of the last																
YEAR OF		SERVICE TIONS /2				IUIAL W	ATER IN	10 51511	CM (MILL	.ION GA	LLUNS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	322236	322236	4513	4260	4862	5192	6117	6886	7309	7319	6443	6078	5125	4701	68805	
1981	324936	324936	4641	4054	4591	5614	6795	8134	8078	7775	6783	5582	4514	4488	71049	
1982	326840	326840	4621	4253	4573	4808	7055	7171	7769	7780	6577	5993	4541	4570	69711	
1983	327029	327029	4676	4221	4700	5056	6322	7789	8604	8357	7624	6170	4810	5011	73340	
1984	328748	328748	5025	4838	5744	6031	7862	8096	9200	8744	8050	6200	4912	4985	79687	
1985	329406	329406	5009	4891	5249	6309	7760	8393	9049	8536	7088	6739	5261	4960	79244	
1986	335000	335000	4920	4557	5294	6028	7670	8327	8899	8589	6981	6713	5934	5100	79012	
1987	340001	340001	5072	4612	5256	7007	8095	8421	8687	8862	7842	6652	4887	4765	80158	
1988	344546	344546	4846	5102	6053	5755	5964	5853	6684	6497	6005	5410	4297	4467	66933	
1989	346466	346466	4333	3965	4204	4979	6211	6775	7505	7376	6284	5881	5168	5033	67714	
1990	352676	352676	4741	4289	5176	5946	6418	6663	7599	7621	6887	6588	5322	5081	72331	
YEAR	PERSONS	AVERAGE POPULA-					PER CAP	TTA WATE	ED LISE	ancd)/	τ.				NNUALLY	
OF	CONNEC-	TION					TER OUT		-1. 002 (Spou //					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980		1043000	140	141	150	166	189	220	226	226	206	188	164	145	181	0.202
1981		1047913	143	138	141	179	209	259	249	239	216	172	144	138	186	0.208
1982		1050205	142	145	140	153	217	228	239	239	209	184	144	140	182	0.204
1983		1046962	144	144	145	161	195	248	265	257	243	190	153	154	192	0.215
1984		1048594	155	159	177	192	242	257	283	269	256	191	156	153	208	0.233
1985		1046814	154	167	162	201	239	267	279	263	226	208	168	153	207	0.232
1986	3.17		150	153	161	189	233	262	271	261	219	204	186	155	204	0.229
1987 1988		1072477	153	154	158	218	243	262	261	267	244	200	152	143	205	0.229
		1082756	144	162	180	177	178	180	199	194	185	161	132	133	169	0.190
1989 1990		1084711	129	131	125	153	185	208	223	219	193	175	159	150	171	0.192
IYYU	3.12	1100000	139	139	152	180	188	202	223	223	209	193	161	149	180	0.202
AVERAGE			145	148	154	179	211	236	247	242	219	188	156	147	190	0.212

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	CONTRA CO				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	.PITTSBURG			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	THENT						
	F												CE WATE			
	GIC REGION				BAY	SYSTE	SERVE	S:				WELLS	AND SP	RINGS	0	
	SUBAREA			IAY												
DAU #		•••••	46				γ									
							Y PLUS			Х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •				OTH	ER	•••••	• • • • • •	• • • • • • •			PURCH	ASED		100	
1990		47,564										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM	ENTAL:			
	ed	•		Meter	ed			Meter	ed			Meter	ed	89		
Flat F	Rate	0		Flat	Rate	0		Flat	Rate	2		Flat	Rate	1		
YEAR		SERVICE			Ì	TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	10,547			107.0	117.0	1/2 0	101 0	215 0	270.0	2/5 0	242.0	107.0	4E4 0	422.0	2054 0	
1981	10,669	-			113.0											
1982	10,790	•			118.0											
1983	10,790	10,894														
1984	11,215				150.0								140.0			
1985	11,385	11,365														
1986	11,735	11,720														
1987	11,848	11,833													2898.0	
1988	11,854				219.0											
1989	12,097				182.0											
1990	12,313				184.0											
1770	12,313	12,270	250.0	104.0	104.0	200.0	20.0	240.0	331.0	352.0	301.0	211.0	20.0	10.0	3000.0	
	PERSONS															
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/
1980	3.18	33,522	121	110	113	141	184	214	221	236	211	186	155	117	168	0.
1981	3.25	34,646	116	105	105	159	217	274	276	250	227	176	132	123	180	0.2
1982	3.32	35,783	110	112	106	124	205	212	239	240	190	114	115	107		0.
1983	3.39	36,941	100	100	98	117	169	228	248	242	223	164	113	107	160	0.
1984	3.45	38,740	105	105	125	157	219	246	271	265	235	161	120	103	177	0.
1985	3.52	40,113	105	121	119	164	222	243	255	234	199	173	118	109		0.1
1986	3.59	42,156	119	128	110	151	203	240	246	240	192	173	160	126	174	0.1
1987	3.66	43,379	124	115	112	172	257	233	285	225	221	216	126	103	183	0.2
1988	3.73	44,219	118	136	160	158	177	210	257	240	225	175	150	152	180	0.2
	3.80	45,960	142	137	128	179	233	268	234	241	279	175	195	168	198	0.2
	3.00	45,700	174	131												
1989	3.87	47.630	173	138	125	188	160	174	224	738	211	188	161	125	176	0 1
	3.87	47,630	173	138	125	188	169	174	224	238	211	188	161	125	176	0.1

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

COUNTY	ALAMEDA			WATER A	AGENCY.		.ALAMED	COUNTY	WATER	DISTRI	CT CT	ORIGIN	OF WATE	R (in p	percent):	
CITY	FREMONT,	ET AL		TYPE O	AGENC	f	PUBLIC	WATER D	ISTRICT	Г						
SYSTEM #	ł		1001									SURF/	ACE WATE	R	100	
HYDROLOG	IC REGION	l	SAN FRA	WCISCO	BAY	SYSTE	EM SERVI	ES:				WELLS	AND SE	RINGS.	. 0	
PLANNING	SUBAREA	#	SOUTH E	IAY												
DAU #			47		ENT	TIRE CIT	η									
					ENT	TIRE CIT	TY PLUS	OUTSIDE		. х		SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POF	RTION O	F THE C	TY								
1980		203,500			OTI	ER						PURCH	ASED		. 48	
1990		265,385										SELF	SUPPLIE	D	. 52	
					SERVICE	CONNE	CTIONS	/1								
RESIDENT	IAL:			COMMERC	CIAL:			INDUSTR	RIAL:			GOVERNA	MENTAL:			
Metere	d	46,216		Meter	red	6,698		Meter	red	4,689		Meter	red	9,377		
Flat R	ate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL I	MTFP II	ITO SYST	EM (MI)	I TON G	ALLOWS)					
OF		TIONS /2				. U.Pak	n 81	513								
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	53,560	53,560	587.0	566.0	648.0	771.0	988.0	1163.0	1197.0	1216.0	1050.0	952.0	777.0	674.0	10589.0	
1981	55,360	55,360	656.0	577.0	643.0	852.0	1110.0	1370.0	1342.0	1286.0	1115.0	874.0	669.0	642.0	11136.0	
1982	55,375	55,375	609.0	594.0	640.0	721.0	1202.0	1245.0	1297.0	1294.0	1049.0	920.0	658.0	671.0	10900.0	
1983	55,948	55,948	690.0	610.0	641.0	750.0	1027.0	1321.0	1464.0	1405.0	1274.0	917.0	721.0	680.0	11500.0	
1984	58,110	58,110	720.0	698.0	850.0	984.0	1366.0	1439.0	1617.0	1512.0	1396.0	967.0	734.0	737.0	13020.0	
1985	59,510	59,510	758.0	760.0	852.0	1064.0	1370.0	1553.0	1678.0	1556.0	1293.0	1205.0	894.0	840.0	13823.0	
1986	60,949	60,949	834.0	731.0	909.0	1167.0	1501.0	1641.0	1778.0	1690.0	1386.0	1252.0	1138.0	932.0	14959.0	
1987	62,840	62,840	866.0	794.0	945.0	1372.0	1594.0	1661.0	1736.0	1757.0	1522.0	1316.0	930.0	862.0	15355.0	,
1988	64,898	64,898	881.0	990.0	1217.0	1180.0	1372.0	1428.0	1667.0	1588.0	1414.0	1221.0	899.0	895.0	14752.0	
1989	68,140	68,140	854.0	797.0	890.0	1151.0	1416.0	1621.0	1757.0	1699.0	1385.0	1189.0	1040.0	994.0	14793.0	
1990	66,980	66,980	933.0	844.0	1017.0	1233.0	1416.0	1478.0	1656.0	1648.0	1468.0	1408.0	1098.0	1008.0	15207.0	
	2522010				•											
YEAR	PERSONS	AVERAGE POPULA-					DED CAL	PITA WAT	TED LICE	(mad)	a				ANNUALLY	
OF	CONNEC-	TION					PER UN	TIA WA	IER USE	(gpcu)	73					-4
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afpca /4
1980	3.80	203,500	93	96	103	126	157	190	190	193	172	151	127	107	143	0.160
1981	3.82	211,240	100	98	98	134	170	216	205	196	176	133	106	98	144	0.162
1982	3.83	212,198	93	100	97	113	183	196	197	197	165	140	103	102	141	0.158
1983	3.85	215,304	103	101	96	116	154	205	219	211	197	137	112	102	146	0.164
1984	3.86	224,569	103	107	122	146	196	214	232	217	207	139	109	106	159	0.178
1985	3.88	230,947	106	118	119	154	191	224	234	217	187	168	129	117	164	0.184
1986	3.90	237,523	113	110	123	164	204	230	241	230	195	170	160	127	173	0.193
1987	3.91	245,915	114	115	124	186	209	225	228	230	206	173	126	113	171	0.192
1988	3.93	255,024	111	134	154	154	174	187	211	201	185	154	118	113	158	0.177
1989	3.95	268,873	102	106	107	143	170	201	211	204	172	143	129	119	151	0.169
1990	3.96	265,385	113	114	124	155	172	186	201	200	184	171	138	123	157	0.176
AVERAGE			105	109	115	145	180	207	215	209	186	153	123	112	155	0.174
				,		. 43	.50									

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY					GENCY			•		TMENT		ORIGIN	OF WATE	R (in p	ercent):	
				TIPE OF	MULTET	• • • • • • •	HONICIF	ML MAIL	K DEFAK	IPICHI		SIDEA	CE WATE	D	100	
				NCISCO	BAY	SYSTE	M SERVE	S:					AND SP			
		#													•	
DAU #			47		ENT	IRE CIT	Y									
								OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	τγ								
1980		88,500										PURCH	ASED		100	
1990		111,498											SUPPLIE			
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	24,247		Heter	ed	1,666		Meter	ed	1,519		Meter	ed	436		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF RECORD	SYSTEM	TIONS /2 CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	25,069	24,801														
1981	25,752	25,501														
1982	25,990	25,734														
1983	26,081	25,816														
1984	26,178	25,913														
1985	26,511	26,246														
1986	27,024	26,752														
1987	27,708	27,435														
1988	27,469	27,196														
1989	27,230	26,956														
1990	27,445	27,171	407.0	348.0	3/5.0	4/0.0	502.0	4/4.0	544.0	0.00	553.0	461.0	397.0	362.0	5398.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	1 /4
1980	3.57	89,456	116	120	107	151	150	185	200	193	185	181	146	111	154	0.17
1981	3.62	93,272	122	126	116	135	172	214	219	212	195	145	130	102	157	0.17
1982	3.68		99	117	103	112	176	194	187	189	179	155	116	105		0.16
1983	3.73	97,255	103	112	103	131	142	211	204	193	210	148	122	112	149	0.16
1984	3.78	99,017	107	117	131	153	178	218	220	214	200	148	130	110	161	0.18
1985	3.84	101,696	111	134	117	148	176	214	212	206	179	159	133	101	158	0.17
1986	3.89	105,110	112	121	107	143	163	213	207	214	183	153	159	121	158	0.17
1987	3.94	109,253	112	132	112	162	193	190	189	194	186	165	128	106	156	0.17
1988	4.00	109,781	108	134	132	156	147	123	140	161	148	138	111	98	133	0.14
1989	4.05	110,283	111	-106	92	107	130	154	169	180	149	160	126	107	133	0.14
1990	4.10	112,622	117	110	107	139	144	140	156	145	164	132	118	104	131	0.14

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

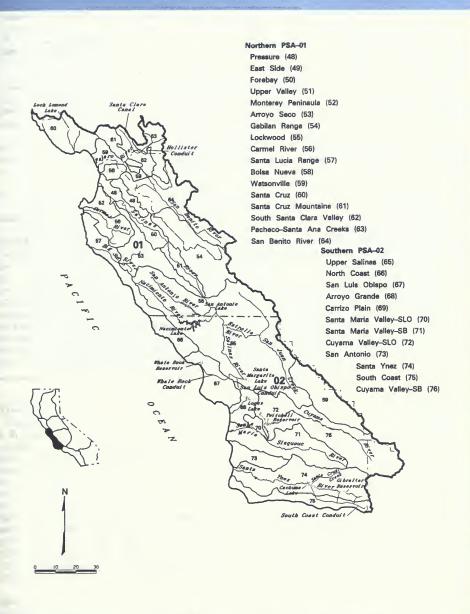
^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COLINTY	CONTRA CO	ETA		UATER A	GENCY		MADTINE	7 (17)	OF.			ORIGIN	OF WATE	P (in ~	ercent):	
	MARTINEZ	MIM			AGENCY					TMENT		OKIUIN	or watt	k (in p	er verit):	
				TIPE OF	MUENCI		HUMILLIP	AL MAIE	K DEPAK	PERI		CUDEA	CE WATE		100	
				HCIECO	DAY	CVCTE	M SERVE	e.					AND SP		0	
		#			BAI	31312	H SERVE	3.				WELLS	AND SP	KINGS	U	
					ENT	IDE CIT	v									
WAU #		•••••						OUTSIDE		х		SUIDLE	OF LIATE	P (in n	ercent):	
CITY CEN	ISUS POPUL	ATTON						ΤΥ		^		SOUNCE	OF MAIL	, (III p	er cert.	
												PLIRCH	ASED		100	
													SUPPLIE			
.,,,,,,,		0.,000			SERVICE	CONNEC	TIONS	/1							•	
RESIDENT	IAL:			COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
Netere	d	7,937		Heter	ed	372		Meter	ed	52		Meter	ed	248		
	ate	•			Rate	0			Rate	0			Rate			
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	8,307	6,907	82.0	65.0	84.0	116.0	154.0	195.0	166.0	171.0	144.0	125.0	112.0	96.0	1510.0	
1981	8,349	6,944	83.0	66.0	85.0	121.0	159.0	199.0	167.0	170.0	143.0	126.0	109.0	94.0	1522.0	
1982	8,391	6,981	81.0	63.0	82.0	110.0	148.0	190.0	164.0	172.0	144.0	124.0	115.0	97.0	1490.0	
1983	8,477	7,060	71.0	74.0	76.0	104.0	114.0	199.0	167.0	155.0	135.0	136.0	88.0	96.0	1415.0	
1984	8,587	7,167	88.0	85.0	85.0	122.0	165.0	245.0	194.0	187.0	214.0	121.0	105.0	102.0	1713.0	
1985	8,799	7,369	95.0	81.0	105.0	131.0	182.0	207.0	227.0	206.0	167.0	145.0	103.0	92.0	1741.0	
1986	8,913	7,378	101.0	87.0	101.0	157.0	197.0	207.0	219.0	208.0	159.0	146.0	125.0	106.0	1813.0	
1987	9,082	7,531	101.0	87.0	101.0	157.0	197.0	207.0	220.0	218.0	189.0	158.0	101.0	99.0	1835.0	
1988	8,850	7,347	105.0	105.0	144.0	144.0	156.0	171.0	204.0	191.0	171.0	143.0	126.0	82.0	1742.0	
1989	8,681	7,255	99.0	93.0	98.0	128.0	173.0	196.0	204.0	191.0	171.0	143.0	126.0	82.0	1704.0	
1990	9,019	7,484	97.0	94.0	108.0	137.0	156.0	170.0	223.0	206.0	157.0	140.0	115.0	99.0	1702.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION													good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.27	27,159	97	83	100	142	183	239	197	203	177	148	137	114	152	0,171
1981	3.37	28,115	95	84	98	143	182	236	192	195	170	145	129	108	148	0.166
1982	3.47	29,080	90	77	91	126	164	218	182	191	165	138	132	108	140	0.157
1983	3.56	30,209	76	87	81	115	122	220	178	166	149	145	97	103	128	0.144
1984	3.66	31,443	90	93	87	129	169	260	199	192	227	124	111	105	149	0.167
1985	3.76	33,082	93	87	102	132	177	209	221	201	168	141	104	90	144	0.161
1986	3.86	34,385	95	90	95	152	185	201	205	195	154	137	121	99	144	0.162
1987	3.96	35,928	91	86	91	146	177	192	198	196	175	142	94	89	140	0.157
1988	4.05	35,878	94	101	129	134	140	159	183	172	159	129	117	74	133	0.149
1989	4.15	36,044	89	92	88	118	155	181	183	171	158	128	117	73	130	0.145
1990	4.25	38,332	82	88	91	119	131	148	188	173	137	118	100	83	122	0.136
AVERAGE			90	88	96	132	162	206	193	187	167	136	114	95	139	0,156
AVERAGE			90	85	70	132	102	200	193	10/	10/	136	114	73	139	U. 156

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ efpca - ecre-feet per capita annually fire protection, and other agencies.





PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

COUNTY	MONTEREY				GENCY					ICE CO.		ORIGIN	OF WATE	R (in p	ercent):	
	SALINAS			TYPE OF	AGENCY	• • • • • • •	INVESTO	R OWNED								
SYSTEM #			27010									SURFA	CE WATE	R	0	
HYDROLOG	IC REGION		CENTRAL	COAST		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA :	#	NORTHER	MS												
DAU #			48		ENT	IRE CIT	γ		• • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	τγ								
1980		80,850			нто	ER						PURCH	ASED		NA	
1990		109,500										SELF	SUPPL1E	D	NA	
					SERVICE	CONNEC	TIONS:	2/								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	21,744		Meter	ed	2,014		Meter	ed	36		Meter	ed	187		
	ate				Rate	•		Flat	Rate	0		Flet	Rate	0		
YEAR	ACTIVE :	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS 3/														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	19,350			239.0	264.0	343.0	403.0	461.0	456.0	456.0	422.0	402.0	340.0	290.0	4317.0	
1981	19,614	19,614	290.0	248.0	266.0	336.0	445.0	527.0	510.0	469.0	452.0	379.0	295.0	265.0	4482.0	
1982	20,723	/5	-	-	-	_	-	-	-	-	-	-	-	-		
1983	20,982		-	-	-	-	-	-	_	-	-	-	-	-		
1984	21,385		-	-	-	-	-	-	-	-	-		-	-	-	
1985	21,982		289.0	289.0	299.0	389.0	508.0	560.0	567.0	568.0	518.0	469.0	354.0	335.0	5145.0	
1986	22,311		329.0		345.0						494.0		427.0	362.0	5405.0	
1987	19,405	17,644			279.0						440.0	415.0			4509.0	
1988	19,793			304.0								384.0			4583.0	
1989	20,376			252.0						508.0					4727.0	
1990	21.034			280.0												
1770	21,004	17,141	270.0	200.0	330.0	407.0	471.0	772.0	400.0	401.0	422.0	415.0	331.0		402410	- 3
	PERSONS	AVEDACE														
YEAR	PER	POPULA-					DED CAP	ITA WAT	ED LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					I EK GW	TIN WILL	EK OOL	(Spou)	-				gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
	1104															
1980	4.18	80,850	96	102	105	141	161	190	182	182	174	160	140	116	146	0.164
1981	4.33	84,975	110	104	101	132	169	207	194	178	177	144	116	101	145	0.162
1982	4.49	92,972		-	-		-	-	-	-	-	-	-	-	-	- 1
1983	4.64	97,367	_	-	-	-	-	-	-	-	-	-	-	-	-	- 1
1984	4.79	102,531	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1
1985		108,780	86	95	89	119	151	172	168	168	159	139	108	99	130	0.145
1986		113,846	93		98	120	156	172	168	159	145	128	125	103	130	0.146
1987		102,007	89		88	126	139	152	154	155	144	131	99	87	121	0.136
1988		107,096	81		112	120	128	145	149	144	134	116	93	83	117	0.131
1989		113,389	76		88	118	133	149	145	145	126	110	105	95	114	0.128
1990		120,292	80		90	113	118	122	129	125	117	111	93	80	105	0.118
1770	J., E	,./2	30		,0		,,,,	1 646-		,,,,						300.0
AVERAGE			89	93	96	124	144	164	161	157	147	130	110	96	126	0.141

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually 5/Missing date unavailable

NOTE: Population figures drop after 1986 because Alco Water Co. was drop[ped from calculations.

	MONTEREY	ET AL							N. LUPUM W	niek co	CH /MI	OW LOTH	OF WATE	, (iii þ	ercent):	
	MONTEREY,			TIPE OF	AGENCY		INVEST	OR OWNED				01555			40	
	IC REGION			TOACT		CVCTE	M SERVE						CE WATE			
	SUBAREA					31316	M SEKAF	:5:				MELLES	AND SP	RINGS	81	
	SUBAREA			53	ENT	IDE CIT	v									
JAU #	•••••		32	23				OUTSIDE				eal ince	OF UATE	e (in n	ercent):	
CITY CEN	SUS POPUL	ATTON						TY				SOURCE	OF WATE	K (in p	ercent):	
	SUS PUPUL									х		DIEDCU	ASED		0	
		•			Oth	LK	• • • • • •		• • • • • • •	^			SUPPLIE			
1770		74,150			SEDVICE	CONNEC	TIONS	/1				JEEF	SOFFEIL	· · · · · · ·	100	
RESIDENT	TAL .			COMMERC		CONNEC	TORS	INDUSTR	TAI .			GOVERNM	ENTAL .			
	d	30 207			ed	4 977			ed	7			ed	1 025		
	ate				Rate				Rate	Ó			Rate			
rtat k	ate	٠		1100	Nate	·		rtat	Nate	٠		rtat .	Nate	٠		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000	70.747	70 71/	77/ ^	200.0	772.0	770 ^	(27.0	520.0	500.0	E24 A	/72.0	/47.0	/17.0	755.0	E037.0	
1980	30,716															
1981	30,950	30,950						585.0								
1982	31,199	,	342.0					502.0				427.0				
1983	31,465		339.0					521.0								
1984	31,865		334.0	292.0				539.0				518.0				
1985	32,343	32,343						571.0								
1986	33,216	33,216						627.0								
1987	33,906							614.0								
1988	34,490							561.0								
1989	35,412	•						441.0								
1990	36,303	36,303	2/5.0	235.0	264.0	346.0	361.0	3%.0	433.0	420.0	384.0	392.0	323.0	281.0	4110.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.06	94,000	115	106	114	134	147	184	175	181	167	159	148	122	146	0.164
1981	3.01	93,271	117	112	112	147	172	209	201	188	178	149	125	118	153	0.171
1982	2.97	92,565	119	118	115	135	174	181	188	196	171	149	119	113	148	0.171
1983	2.92	91,885	119	114	127	136	159	189	209	199	193	161	125	114	154	0.100
1984	2.92	91,566	118	110	134	153	201	196	209	197	220	182	155	117	168	0.173
1985	2.83	91,300	127	131	125	155	188	208	215	221	198	176	152	125	169	0.189
1986	2.78	91,430	144	134	137	161	210	208	218	202	182	170	164	134	174	0.109
1987	2.78		127	134	137	192	185	226	218	202	208	1/1	132	116	174	0.193
	2.73	92,682 92,668	118	151	162	160	180	202	211	207	188	161	129	118	167	0.193
	6.09	YZ,000	118	121	102	100	100	202	213	207	108	10.1	129	116	10/	0.18/
1988 1989	2.64	93,492	97	91	89	124	138	157	155	153	129	116	116	103	123	0.137

AVERAGE 118 117 122 147 171 192 196 192 179 158 135 116 154 0.172

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	SANTA CRU				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	.WATSONVII			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
		• • • • • • • • • • • • • • • • • • • •										SURFA	CE WATE	R	90	
		l				SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	10	
		#		RN												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	59				Υ									
							Y PLUS			X		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI									
1980		23,600			ОТН	ER	•••••	• • • • • • •				PURCH	ASED		0	
1990		31,099										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	10,404		Meter	ed	908		Meter	ed	50		Meter	ed	97		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	10,647	6,071	131.0	127.0	163.0	167.0	187.0	220.0	225.0	223.0	200.0	212.0	171.0	132.0	2158.0	
1981	10.513	6,171		123.0		190.0	213.0		248.0	237.0				143.0	2280.0	
1982	10,717	6,344	132.0	128.0	157.0	173.0	224.0	223.0	242.0	246.0		208.0			2267.0	
1983	10,921	6,531	143.0	127.0	152.0	170.0		247.0	286.0	272.0				167.0		
1984	11,138	6.727	148.0	145.0	185.0	195.0	249.0		271.0	260.0	253.0	195.0			2442.0	
1985	11,281	6.849	147.0	145.0	166.0	203.0	239.0	256.0	261.0	256.0		216.0				
1986	11,364	6,930	129.0	102.0	142.0	205.0	245.0	271.0	281.0	266.0	232.0	218.0		171.0		
1987	11,370				190.0				275.0	276.0	244.0	230.0	167.0		2615.0	
1988	11,468	7,331		172.0	211.0	205.0		255.0	280.0	265.0	240.0	221.0	171.0	160.0	2552.0	
1989	11,830	7,562	150.0	145.0	175.0				277.0			218.0	188.0	168.0		
1990	11,963	-			175.0								171.0			
	DEDEGNE	AVERAGE														
YEAR	PER	POPULA-					PER CAP	774 HAT	ED LIEE	(7				ANNUALLY	
OF	CONNEC-	TION					FER CAP	IIA WATE	ER USE	(gpcu)/.	3					
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afpc /4
1980	3.89	41,388	102	106	127	134	146	177	175	174	161	165	138	103	143	0.160
1981	3.90	40,992	102	107	120	155	168	198	195	187	176	150	157	113	152	0.171
1982	3.91	41,915	102	109	121	138	172	177	186	189	169	160	128	123	148	0.166
1983	3.92	42,843	108	106	114	132	151	192	215	205	203	162	135	126		0.17
1984	3.93	43,826	109	114	136	148	183	184	199	191	192	144	117	107	153	0.17
1985	3.95	44,523	107	116	120	152	173	192	189	185	166	156	134	117	151	0.169
1986	3.96	44,985	93	81	102	152	176	201	202	191	172	156	153	123	150	0.168
1987	3.97	45,144	124	138	136	165	174	196	197	197	180	164	123	109	159	0.178
1988	3.98	45,669	101	130	149	150	162	186	198	187	175	156	125	113	153	0.17
1989	3.99	47,251	102	-110	119	147	169	187	189	176	159	149	133	115	147	0.164
1990	4.01	47,924	108	94	118	128	154	164	169	171	155	143	119	110	136	0.153
AVERAGE			105	110	124	146	166	187	192	187	174	155	133	114	150	0.168

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTYS										ER DIST						
	BOULDER C	REEK, ET /	AL.	TYPE OF												
SYSTEM #.												SURFAC	E WATER		50	
				COAST		SYSTE	SERVES	3:				WELLS	AND SPE	INGS	50	
PLANNING	SUBAREA :	#)	ORTHER	N												
DAU #			60		ENTI	RE CITY	ſ									
					ENTI	RE CITY	PLUS C	UTSIDE.		Х		SOURCE C	F WATER	(in pa	ercent):	
CITY CENS	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
1980		14,000			OTHE	R						PURCHA	SED		NA	
1990		16,000										SELF S	SUPPLIED		NA	
					SERVICE	CONNECT	TIONS /	11								
RESIDENTI	AL:			COMMERC	IAL:		1	NDUSTRI	AL:		1	GOVERNME	NTAL:			
Metered	1	5,325		Meter	ed	116		Metere	d	NA		Metere	ed	NA		
Flat Ra	te	0		Flat i	Rate	0		Flat R	ate	NA		Flat F	late	NA		
YEAR	ACTIVE	CEDVICE			,	OTAL W	TED IN	O SYSTE	M ZMTLL	TON GAL	LONS					
OF		TIONS /2				OIAL W	TIER AN	0 31310	A (111EE	TON UNI	LONG					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,179	5,179	/5	-	-	-	-	-	-	-	-	-	-		-	
1981	5,202	5,202	-	-	•	-	-	-	68.0	50.0	60.0	41.0	42.0	28.0	-	
1982	5,225	5,225	25.0	52.0	22.0	25.0	40.0	23.0	-	-	•	-	-	-	-	
1983	5,247	5,247	-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	5,270	5,270	-	-	-	-	-	-	71.0	60.0	53.0	47.0	39.0	41.0	-	
1985	5,293	5,293	43.0	35.0	37.0	42.0	52.0	58.0	-	-	-	-	-	-	-	
1986	5,315	5,315	32.0	35.0	36.0	44.0	54.0	59.0	58.0	59.0	40.0	43.0	41.0	35.0	536.0	
1987	5,332	5,332	40.0	30.0	31.0	45.0	53.0	60.0	61.0	65.0	55.0	46.0	35.0	32.0	553.0	
1988	5,372	5,372	32.0	36.0	36.0	47.0	45.0	52.0	63.0	60.0	52.0	50.0	36.0	30.0	539.0	
1989	5,405	5,405	36.0	25.0	33.0	41.0	48.0	52.0	64.0	58.0	50.0	43.0	42.0	40.0	532.0	
1990	5,410	5,410	39.0	34.0	33.0	48.0	63.0	52.0	52.0	52.0	50.0	46.0	37.0	39.0	545.0	
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	TA WATE	D HEE	anod) (WINUALLY	
	CONNEC-	TION					LK Gr	IIA WATE	in our (Spour, -					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.70	14,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	2.73	14,194	-	-	-		-	-	155	114	141	93	99	64	-	-
1982	2.75	14,390	56	129	49	58	90	53	-	-	-	-	-	-	-	-
1983	2.78	14,584	-	-	•	-	-	-	-	-	-	-	-	-	-	-
1984	2.80	14,782	-	-	•	-	-		155	131	120	103	88	89	-	-
1985	2.83	14,981	93	83	80	93	112	129	-	-	-	-	-		-	-
1986	2.86	15,178	68	82	77	97	115	130	123	125	88	91	90	74	97	0.108
1987	2.88	15,363	84	70	65	98	111	130	128	136	119	97	76	67	99	0.110
1988	2.91	15,614	66	80	74	100	93	111	130	124	111	103	77	62	95	0.106
1989	2.93	15,848	73	56	67	86	98	109	130	118	105	88	88	81	92	0.103
1909							4.07	400	405	405		-		-		0.400
1990	2.96	16,000	79	76	67	100	127	108	105	105	104	93	77	79	93	0.105

.....

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/}Missing data unavailable.

COUNTYSA CITYSA SYSTEM # NYDROLOGIC PLANNING S DAU # CITY CENSU	ANTA CRUS	z 						CRUZ, CI PAL WATE		TMENT		ORIGIN	OF WATE	R (in p	ercent):	
SYSTEM # NYDROLOGIC PLANNING S DAU #	REGION			TYPE OF	AGENCY		MUNICII	PAL WATE	r depar	TMENT						
NYDROLOGIC PLANNING S DAU #	REGION		44010													
PLANNING S													CE WATE			
	SUBAREA 1					SYSTE	M SERVI	S:				WELLS	AND SP	RINGS	10	
CITY CENCI			60		ENT	IRE CIT	Υ									
CITY CENS					ENT	IRE CIT	Y PLUS	CUTSIDE		х		SOURCE	OF WATER	R (in p	ercent):	
	JS POPUL	ATION			POR	TION OF	THE C	TTY								
1980		41,800			OTH	ER						PURCH	ASED		0	
1990		49,350										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENTIA	NL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metered.		19,439		Meter	ed	1,884		Meter	ed	178		Meter	ed	178		
Flat Rat	te	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE S	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	19,277	12,770	249.0	219.0	258.0	302.0	314.0	382.0	380.0	401.0	343.0	351.0	298.0	243.0	3740.0	
1981	19,587	13,045	253.0	234.0	267.0	315.0	403.0	429.0	421.0	395.0	345.0	310.0	248.0	249.0	3869.0	
1982	19,655	13,020	233.0	214.0	231.0	249.0	363.0	348.0	376.0	370.0	292.0	311.0	236.0	233.0	3456.0	
1983	19,734	13,088	246.0	230.0	237.0	250.0	313.0	431.0	420.0	397.0	532.0	275.0	258.0	242.0	3831.0	
1984	19,668	13,187	259.0	233.0	260.0	299.0	428.0	389.0	391.0	408.0	349.0	283.0	232.0	215.0	3746.0	
1985	20,274	13,363	227.0	219.0	234.0	322.0	414.0	434.0	471.0	444.0	384.0	382.0	273.0	290.0	4094.0	
1986	20,326	13,415	264.0	245.0	299.0	337.0	407.0	441.0	446.0	436.0	347.0	363.0	340.0	292.0	4217.0	
1987	20,590	13,750	259.0	246.0	289.0	384.0	415.0	421.0	442.0	456.0	386.0	353.0	273.0	233.0	4157.0	
1988	21,490	14,005	282.0	286.0	387.0	315.0	335.0	383.0	448.0	440.0	399.0	349.0	272.0	264.0	4160.0	
1989	21,724	14,152	271.0	240.0	232.0	288.0	351.0	405.0	410.0	422.0	318.0	323.0	335.0	258.0	3853.0	
1990	21,883	14,298	253.0	228.0	258.0	304.0	278.0	284.0	324.0	336.0	307.0	307.0	265.0	258.0	3402.0	
p	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAI	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF C	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.27	63,099	127	120	132	160	161	202	194	205	181	179	157	124	162	0.182
1981	3.29	64,463	127	130	134	163	202	222	211	198	178	155	128	125	164	0.184
1982	3.31	65,037	116	118	115	128	180	178	186	184	150	154	121	116	146	0.163
1983	3.33	65,650	121	125	116	127	154	219	206	195	270	135	131	119	160	0.179
1984	3.34	65,781	127	122	127	152	210	197	192	200	177	139	118	105	156	0.175
1985	3.36	68,170	107	115	111	157	196	212	223	210	188	181	133	137	165	0.18
1986	3.38	68,707	124	127	140	163	191	214	209	205	168	170	165	137	168	
1987	3.40	69,966	119	126	133	183	191	201	204	210	184	163	130	107	163	0.182
1988	3.42	73,407	124	134	170	143	147	174	197	193	181	153	124	116	155	0.174
1989	3.43	74,594	117	115	100	129	152	181	177	182	142	140	150	112	142	0.158
	3.45	75,530	108	108	110	134	119	125	138	144	135	131	117	110	123	0.138
1990																

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SANTA CRU	Z		WATER A	GENCY		SOQUEL	CREEK C	OUNTY W	ATER DI	ST.	ORIGIN	OF WATE	R (in p	ercent):	
C1TY	SOQUEL, A	PTOS		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #			44017									SURFA	CE WATE	R	0	
HYDROLOG	IC REGION		CENTRAL	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	NORTHER	:N												
DAU #			60		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		30,138			ОТН	ER				X		PURCH	ASED		0	
1990		38,043										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	11,538		Meter	ed	1,282		Meter	ed	NA		Meter	ed	NA		
	ate			Flat	Rate	0		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	10,875	10,875	88.0	89.0	94.0	108.0	126.0	151.0	139.0	145.0	129.0	125.0	108.0	94.0	1396.0	
1981	11,058	11,058	95.0	83.0	92.0	114.0	129.0	162.0	155.0	157.0	133.0	109.0	93.0	88.0	1410.0	
1982	11,241	11,241	93.0	85.0	92.0	101.0	138.0	144.0	157.0	159.0	130.0	120.0	95.0	95.0	1409.0	
1983	11,425	11,425	98.0	89.0	100.0	108.0	131.0	156.0	179.0	169.0	151.0	122.0	98.0	97.0	1498.0	
1984	11,608	11,608	101.0	97.0	112.0	125.0	170.0	164.0	179.0	169.0	152.0	123.0	98.0	98.0	1588.0	
1985	11,930	11,930	101.0	100.0	107.0	129.0	158.0	167.0	177.0	178.0	155.0	137.0	110.0	106.0	1625.0	
1986	11,986	11,986	103.0	95.0	111.0	132.0	165.0	181.0	178.0	173.0	140.0	137.0	134.0	113.0	1662.0	
1987	12,298	12,298	110.0	108.0	116.0	154.0	165.0	178.0	191.0	186.0	165.0	148.0	112.0	107.0	1740.0	
1988	12,512	12,512	103.0	118.0	142.0	135.0	150.0	168.0	180.0	176.0	158.0	140.0	108.0	110.0	1688.0	
1989	12,600	12,600	108.0	98.0	105.0	129.0	159.0	171.0	173.0	163.0	152.0	144.0	122.0	118.0	1642.0	
1990	12,700	12,700	111.0	100.0	115.0	137.0	145.0	151.0	173.0	163.0	152.0	144.0	122.0	118.0	1631.0	
	DEDENNE	AVERAGE			-											
YEAR	PER	POPULA-					PER CAR	ITA WAT	FR USF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION							-11 00-	(3)					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
								4/7	4/0	455	4/7	134	119	101	427	0.142
1980	2.77	30,138	94	102	101	119	135	167	149	155	143				127	
1981	2.79	30,893	99	96	96	123	135	175	162	164	144	114	100	92	125	0.140
1982	2.82	31,656	95	96	94	106	141	152	160	162	137	122	100	97	122	0.137
1983	2.84	32,431	97	98	99	111	130	160	178	168	155	121	101	96	127	0.142
1984	2.86	33,210	98	101	109	125	165	165	174	164	153	119	98	95	131	0.147
1985	2.88	34,399	95	104	100	125	148	162	166	167	150	128	107	99	129	0.145
1986	2.91	34,829	95	97	103	126	153	173	165	160	134	127	128	105	131	0.146
1987	2.93	36,012	99	107	104	143	148	165	171	167	153	133	104	96	132	0.148
1988	2.95	36,919	90	110	124	122	131	152	157	154	143	122	98	96	125	0.140
1989	2.97	37,461	93	93	90	115	137	152	149	140	135	124	109	102	120	0.134
1990	3.00	38,043	94	94	98	120	123	132	147	138	133	122	107	100	117	0.132
AVERAGE			95	100	102	121	140	159	162	158	144	124	106	98	126	0.141

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^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SANTA CLA	RA		WATER A	GENCY		GILROY,	CITY O	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY	GILROY			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #			43004									SURFA	CE WATE	R	0	
						SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
		#		345												
DAU #	• • • • • • • • • • • • • • • • • • • •		62			IRE CIT										
	IOLIO DODLII	ATION				IRE CIT				Х		SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL					TION OF						DI IDOII	1050			
		•			OIN	ER	• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •				ASED		0	
1990		31,401			SERVICE	CONNEC	TIONS	/1				SELF	SUPPLIE	D	100	
RESIDENT	TAL			COMMERC		COMMEC		/ I Industr	TAL .			GOVERNM	ENTAL -			
	d	7,004			ed	663			ed	NA			ed	261		
	ate				Rate	0			Rate	NA.			Rate	0		
reat K	acc			reac	Nacc			reac	nata	N/A		reac	Rate	U		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	5,900	5,890	65.0	88.0	68.0	84.0	138.0	161.0	198.0	189.0	162.0	147.0	143.0	82.0	1525.0	
1981	6,235	6,217	93.0	73.0	70.0	82.0	176.0	163.0	260.0	187.0	157.0	178.0	89.0	68.0	1596.0	
1982	6,314	6,302	84.0	69.0	75.0	97.0	134.0	174.0	213.0	199.0	238.0	120.0	86.0	77.0	1566.0	
1983	6,463	6,452	88.0	71.0	67.0	108.0	92.0	231.0	217.0	219.0	249.0	147.0	140.0	77.0	1706.0	
1984	6,801	6,795	76.0	90.0	111.0	121.0	161.0	258.0	232.0	287.0	227.0	182.0	109.0	98.0	1952.0	
1985	6,906	6,900	77.0	103.0	94.0	111.0	145.0	244.0	208.0	218.0	226.0	192.0	140.0	83.0	1841.0	
1986	7,541	7,541	102.0	87.0	76.0	107.0	202.0	208.0	263.0	253.0	208.0	194.0	138.0	110.0	1948.0	
1987	7,595	7,595	98.0	91.0	104.0	147.0	212.0	215.0	251.0	268.0	219.0	197.0	115.0	89.0	2006.0	
1988	7,815	7,815	109.0	103.0	129.0	194.0	178.0	187.0	250.0	239.0	275.0	181.0	145.0	115.0	2105.0	
1989	7,907	7,907	93.0	87.0	102.0	100.0	131.0	204.0	206.0	219.0	204.0	196,0	128.0	111.0	1781.0	
1990	7,907	7,907	128.0	89.0	113.0	124.0	163.0	160.0	201.0	247.0	231.0	171.0	154.0	117.0	1898.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.67	21,678	97	140	101	129	205	248	295	281	249	219	220	122	193	0.216
1981	3.70	23,101	130	113	98	118	245	235	363	261	227	249	128	95	189	0.212
1982	3.74	23,588	115	104	103	137	183	246	291	272	336	164	122	105	182	0.20
1983	3.77	24,343	117	104	89	148	122	316	288	290	341	195	192	102	192	0.21
1984	3.80	25,826	95	120	139	156	201	333	290	358	293	227	141	122	207	0.23
1985	3.83	26,437	94	139	115	140	177	308	254	266	285	234	177	101	191	0.214
1986	3.86	29,101	113	107	84	123	224	238	292	280	238	215	158	122	183	0.20
1987	3.89	29,543	107	110	114	166	231	243	274	293	247	215	130	97	186	0.20
1988	3.92	30,639	115	116	136	211	187	203	263	252	299	191	158	121	188	0.21
1989	3.95	31,243	96	99	105	107	135	218	213	226	218	202	137	115	156	0.17
1990	3.98	31,487	131	101	116	131	167	169	206	253	245	175	163	120	165	0.185

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SAN BENIT	0		WATER A	GENCY		HOLLIST	ER, CIT	Y OF/SU	NNYSLOP	E WD	ORIGIN	OF WATE	(in p	ercent):	
CITY	HOLL ISTER			TYPE OF	AGENCY		MUNI. 1	ATER DE	PT./PUB	L. W. D	IST.					
SYSTEM #		• • • • • • • • • • • • • • • • • • • •	3505									SURFA	CE WATE	₹	0	
HYDROLOG	IC REGION	• • • • • • • • • • • • • • • • • • • •	CENTRAL	COAST		SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	NORTHER	:N												
DAU #	•••••	• • • • • • • • •	62					OUTSIDE		х		SOURCE (DF WATER	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		11,700			OTH	ER						PURCH	ASED		0	
1990		19,400										SELF :	SUPPL I EI	·	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,600		Heter	ed	419		Meter	ed	170		Heter	ed	6		
Flat R	ate	1		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,929	3,526	65.0	59.0	61.0	57.0	62.0	83.0	93.0	109.0	101.0	87.0	85.0	57.0	919.0	
1981	5,087	3,921	66.0	53.0	60.0	64.0	78.0	104.0	107.0	107.0	103.0	82.0	46.0	43.0	913.0	
1982	5,244	3,944	40.0	37.0	40.0	49.0	70.0	81.0	102.0	120.0	89.0	71.0	47.0	41.0	787.0	
1983	5,377	4.071	42.0	39.0	42.0	48.0	75.0	96.0	110.0	120.0	88.0	76.0	61.0	52.0	849.0	
1984	5,535	4,188	52.0	49.0	60.0	69.0	101.0	106.0	122.0	116.0	103.0	70.0	47.0	49.0	944.0	
1985	5,719	4.339	53.0	50.0	53.0	69.0	92.0	97.0	136.0	131.0	106.0	83.0	58.0	53.0	981.0	
1986	6,040	4,469	56.0	51.0	61.0	73.0	103.0	125.0	136.0	142.0	117.0	89.0	79.0		1093.0	
1987	6,402	4,598	60.0	53.0	64.0	101.0	93.0	123.0	146.0	156.0	136.0	112.0	68.0		1173.0	
1988	6,560	4,817	54.0	63.0	94.0	110.0	108.0	120.0	152.0	163.0	125.0	97.0	78.0	72.0	1236.0	
1989	7,202	5,558	64.0	53.0	67.0	98.0	115.0	130.0	170.0	160.0	131.0	95.0	79.0		1244.0	
1990	8,199	6,695	66.0	63.0	76.0	87.0	98.0	113.0	148.0	152.0	132.0	98.0	82.0	73.0	1188.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DED CAD	TAN MAT	FR INF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								(Shou))					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.32	16,355	128	124	120	116	122	169	183	215	206	172	173	112	154	0.172
1981	3.28	16,666	128	114	116	128	151	208	207	207	206	159	92	83	150	0.168
1982	3.23	16,960	76	78	76	96	133	159	194	228	175	135	92	78	127	0.142
1983	3.19	17,164	79	81	79	93	141	186	207	226	171	143	118	98	136	0.152
1984	3.15	17,435	96	97	111	132	187	203	226	215	197	130	90	91	148	0.166
1985	3.11	17,774	96	100	96	129	167	182	247	238	199	151	109	96	151	0.169
1986	3.07	18,518	98	98	106	131	179	225	237	247	211	155	142	106	162	0.181
1987	3.02	19,359	100	98	107	174	155	212	243	260	234	187	117	102	166	0.186
1988	2.98	19,561	89	111	155	187	178	204	251	269	213	160	133	119	173	0.194
1989	2.94	21,172	98	89	102	154	175	205	259	244	206	145	124	125	161	0.180
1990	2.90	23,758	90	95	103	122	133	159	201	206	185	133	115	99	137	0.153

98 99 107 133 157 192 223 232 200 152 119 101 151 0.170

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

0011174				LIATED A	GENCY		MODCAN	W111 C	ITV OF			ODICIN	OF 1147F	n 11		
	SANTA CLA				AGENCY					THELT		OKIGIN	OF WATE	K (in p	ercent):	
	MORGAN HI			TIPE OF	AGENCI		HUNICIP	AL WATE	R DEPAR	IMENI		OLDE 4	CE WATE			
				72402		CVCTC	M SERVE								0	
	IC REGION					21215	M SEKVE	5:				MELLS	AND SP	RINGS	100	
					ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE	•••••	X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ	• • • • • • •							
					OTH	ER	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • •			PURCH	ASED	• • • • • •	0	
1990		23,928										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC			***			001 577111				
RESIDENT		7 404		COMMERC		7/0		INDUSTR		45		GOVERNM		200		
	d	-			ed	342			ed				ed			
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR OF		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	4,973	4,823	59.0	52.0	63.0	76.0	106.0	128.0	135.0	148.0	121.0	111.0	84.0	60.0	1143.0	
1981	4,985	4,880	64.0	59.0	63.0	99.0	170.0	190.0	184.0	167.0	178.0	100.0	71.0	50.0	1395.0	
1982	5,087	4,978	67.0	43.0	61.0	74.0	137.0	148.0	148.0	162.0	133.0	85.0	62.0	59.0	1179.0	
1983	5,153	5,037	63.0	53.0	59.0	70.0	109.0	149.0	152.0	152.0	117.0	119.0	58.0	55.0	1156.0	
1984	5,580	5,459	61.0	58.0	83.0	106.0	125.0	127.0	183.0	153.0	120.0	100.0	70.0	67.0	1253.0	
1985	5,783	5,662	79.0	72.0	65.0	92.0	142.0	213.0	165.0	208.0	126.0	122.0	93.0	90.0	1467.0	
1986	5,909	5,783	67.0	119.0	107.0	94.0	130.0	198.0	212.0	224.0	168.0	133.0	94.0	106.0	1652.0	
1987	6,379	6,254	115.0	101.0	115.0	171.0	235.0	208.0	251.0	226.0	242.0	191.0	128.0	116.0	2099.0	
1988	6,760	6,637	125.0	120.0	180.0	184.0	204.0	219.0	264.0	260.0	211.0	180.0	127.0	112.0	2186.0	
1989	7,260	7,125	98.0	95.0	88.0	127.0	160.0	188.0	216.0	195.0	162.0	119.0	114.0	105.0	1667.0	
1990	7,755	7,618	86.0	76.0	87.0	110.0	136.0	138.0	153.0	161.0	141.0	127.0	131.0	100.0	1446.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.54	17,591	108	102	116	144	194	243	248	271	229	204	159	110	178	0.199
1981	3.50	17,436	118	121	117	189	315	363	340	309	340	185	136	93	219	0.246
1982	3.46	17,591	123	87	112	140	251	280	271	297	252	156	117	108	184	0.206
1983	3.42	17,615	115	107	108	132	200	282	278	278	221	218	110	101	180	0.201
1984	3.38	18,853	104	106	142	187	214	225	313	262	212	171	124	115	182	0.204
1985	3.34	19,310	132	133	109	159	237	368	276	347	218	204	161	150	208	0.233
1986	3.30	19,497	111	218	177	161	215	339	351	371	287	220	161	175	232	0.260
1987	3.26	20,795	178	173	178	274	365	333	389	351	388	296	205	180	277	0.310
1988	3.22	21,769	185	190	267	282	302	335	391	385	323	267	194	166	275	0.308
1989	3.18	23,091	137	_147	123	183	224	271	302	272	234	166	165	147	198	0.222
1990	3.14	24,358	114	111	115	151	180	189	203	213	193	168	179	132	163	0.182
AVERAGE			130	136	142	182	245	293	306	305	263	205	156	134	209	0.234

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	SAN LUIS	081SP0		WATER A	GENCY		ATASCAD	ERO MUT	UAL WAT	ER COMP.	ANY	ORIGIN	OF WATE	R (in p	ercent):	
CITY	ATASCADER	0		TYPE OF	AGENCY		INVESTO	R OWNED	ASSOCI	ATION						
												SURFA	CE WATE	R	0	
				COAST		SYSTE	M SERVE	S:					AND SP		100	
		#														
					ENT	IRE CIT	γ			x						
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
												PURCH	ASED		0	
		•											SUPPLIE		100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	7,263			ed	655			ed	NA			ed	35		
	ate	-			Rate	0			Rate	0			Rate	0		
		•								•				•		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
				• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •											
1980	5,212	5,212	47.0	43.0	38.0	63.0	76.0	112.0	132.0	168.0	121.0	125.0	81.0	61.0	1067.0	
1981	5,619	5,619	59.0	50.0	52.0	90.0	145.0	196.0	193.0	181.0	148.0	105.0	60.0	58.0	1337.0	
1982	5,625	5,625	57.0	49.0	54.0	69.0	94.0	150.0	146.0	185.0	170.0	95.0	75.0	55.0	1199.0	
1983	6,845	6,845	48.0	38.0	58.0	60.0	63.0	166.0	191.0	197.0	168.0	116.0	93.0	62.0	1260.0	
1984	6,120	6,120	57.0	68.0	84.0	104.0	160.0	205.0	231.0	217.0	207.0	155.0	92.0	62.0	1642.0	
1985	6,415	6,415	72.0	64.0	69.0	100.0	148.0	207.0	236.0	219.0	197.0	155.0	105.0	70.0	1642.0	
1986	6,654	6,654	75.0	67.0	67.0	88.0	159.0	215.0	223.0	230.0	210.0	128.0	131.0	94.0	1687.0	
1987	7,000	7,000	102.0	84.0	68.0	117.0	209.0	198.0	233.0	247.0	220.0	194.0	97.0	78.0	1847.0	
1988	7,066	7,066	90.0	96.0	106.0	175.0	139.0	210.0	265.0	248.0	264.0	193.0	135.0	88.0	2009.0	
1989	7,367	7,367	83.0	86.0	86.0	152.0	152.0	210.0	274.0	257.0	236.0	144.0	121.0	107.0	1908.0	
1990	7,401	7,401	95.0	79.0	79.0	148.0	179.0	212.0	237.0	219.0	226.0	157.0	118.0	108.0	1857.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								(Spear)					gpcd	afpc
RECORD	TION	SERVED	JAN	FE8	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
•••••	•••••															
1980	3.06	15,930	95	93	77	132	154	234	267	340	253	253	169	124	184	0.206
1981	3.06	17,213	111	104	97	174	272	380	362	339	287	197	116	109	213	0.238
1982	3.07	17,271	106	101	101	133	176	290	273	346	328	177	145	103	190	0.21
1983	3.08	21,065	74	64	89	95	96	263	292	302	266	178	147	95	164	0.18
1984	3.08	18,876	97	124	144	184	273	362	395	371	366	265	162	106	238	0.26
1985	3.09	19,831	117	115	112	168	241	348	384	356	331	252	176	114	227	0.254
1986	3.10	20,617	117	116	105	142	249	348	349	360	340	200	212	147	224	0.25
1987	3.11	21,737	151	138	101	179	310	304	346	367	337	288	149	116	233	0.26
1988	3.11	21,992	132	151	155	265	204	318	389	364	400	283	205	129	250	0.280
1989	3.12	22,980	117	134	121	220	213	305	385	361	342	202	176	150	227	0.25
		27 470	470	400	440	247	ore	705	770	705	201	240	470	45.4	220	0.246
1990	3.13	23,138	132	122	110	213	250	305	330	305	326	219	170	151	220	0.240

^{1/} Number of services

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	SAN LUIS							BLES, C				ORIGIN	OF WATER	(in p	ercent):	
	PASO ROBL			TYPE OF	AGENCY		MUNICIP.	AL WATE	R DEPAR	TMENT						
		•••••											CE WATER		0	
						SYSTE	M SERVE	S:				WELLS	AND SPE	INGS	100	
		#		N												
DAU #	• • • • • • • • • •		65													
								OUTSIDE		X		SOURCE	OF WATER	(in p	ercent):	
	SUS POPUL							ΤΥ								
	• • • • • • • • • • • • • • • • • • • •	•			ОТН	ER	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •			PURCH	ASED	•••••	0	
1990	• • • • • • • • •	18,583										SELF	SUPPL IED		100	
						CONNEC	TIONS									
RESIDENT			(COMMERC				INDUSTR				GOVERNM				
Metere	d	•		Meter	ed	446		Meter	ed	NA		Heter	ed	NA		
Flat R	ate	0		Flat I	Rate	0		Flat	Rate	KA		Flat	Rate	NA		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	3,670	3,547	39.0	38.0	43.0	67.0	90.0	117.0	121.0	127.0	103.0	92.0	65.0	51.0	953.0	
1981	3,828	3,774	56.0	51.0	52.0	63.0	95.0	106.0	128.0	118.0	98.0	78.0	57.0	54.0	956.0	
1982	4,062	4,015	43.0	41.0	41.0	57.0	105.0	119.0	145.0	145.0	105.0	79.0	51.0	49.0	980.0	
1983	4,262	4,208	47.0	42.0	42.0	50.0	99.0	137.0	162.0	149.0	134.0	77.0	73.0	50.0	1062.0	
1984	4,490	4,431	51.0	56.0	82.0	98.0	154.0	156.0	180.0	161.0	144.0	101.0	63.0	71.0	1317.0	
1985	4,894	4,829	54.0	45.0	60.0	103.0	143.0	168.0	180.0	161.0	144.0	101.0	63.0	71.0	1293.0	
1986	5,128	5,063	59.0	52.0	64.0	95.0	139.0	154.0	166.0	165.0	120.0	100.0	86.0	68.0	1268.0	
1987	5,541	5,479	61.0	57.0	62.0	116.0	139.0	155.0	195.0	176.0	147.0	93.0	60.0	61.0	1322.0	
1988	5,717	5,707	59.0	72.0	98.0	96.0	133.0	153.0	188.0	176.0	154.0	132.0	83.0	72.0	1416.0	
1989	5,836	5,771	63.0	66.0	81.0	123.0	146.0	168.0	197.0	187.0	143.0	107.0	91.0		1452.0	
1990	6,135	6,080	70.0	61.0	88.0	123.0	151.0	179.0	202.0	196.0	156.0	142.0	109.0	86.0	1563.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(appd)/	3				ANNUALLY	
OF	CONNEC-	TION													good	af
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	1
1980	2.58	9,481	133	138	146	236	306	411	412	432	362	313	229	174	275	0.3
1981	2.63	10,070	179	181	167	209	304	351	410	378	324	250	189	173	260	0.2
1982	2.68	10,878	128	135	122	175	311	365	430	430	322	234	156	145	247	0.2
1983	2.73	11,615	131	129	117	143	275	393	450	414	385	214	209	139	251	0.2
1984	2.77	12,449	132	155	212	262	399	418	466	417	386	262	169	184	290	0.3
1985	2.82	13,800	126	116	140	249	334	406	421	376	348	236	152	166	257	0.2
1986	2.87	14,703	129	126	140	215	305	349	364	362	272	219	195	149	236	0.2
1987	2.91	16,149	122	126	124	239	278	320	390	352	303	186	124	122	224	0.2
1988	2.96	16,933	112	147	187	189	253	301	358	335	303	251	163	137	229	0.2
1989	3.01	17,561	116	134	149	233	268	319	362	344	271	197	173	147	227	0.2
1990	3.06	18,751	120	116	151	219	260	318	348	337	277	244	194	148	228	0.2
			130	137	150	215	299	359	401	380	323	237	178	153	248	0.2

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

	SAN LUIS	OBISPO		MATER A				-			(ORIGIN C	F WATER	(in pe	rcent):	
	MORRO BAY			TYPE OF	AGENCY.	•••••	UNICIPA	L WATER	DEPART	MENT						
SYSTEM #		•••••	40011									SURFAC	E WATER		0	
						SYSTE	SERVES	3:				WELLS	AND SPR	INGS	100	
		#		N												
AU #	• • • • • • • • • • • • • • • • • • • •	•••••	67													
							PLUS C			Х		SOURCE (OF WATER	t (in pe	ercent):	
	SUS POPUL						THE CIT									
	• • • • • • • • • • • • • • • • • • • •	9,064			OTHE	R			•••••				ISED		0	
1990	• • • • • • • • • • • • • • • • • • • •	9,664			enu er	CONNECT	TACALC .	14				SELF S	SUPPLIED		100	
	* * * *				SERVICE	CONNECT			Al a			~~ FDAINE	NVAL .			
RESIDENT		/ 007		COMMERCI		411	,	NDUSTRI			'	GOVERNME		59		
	d	4,083			ed	411			d	6			d	0		
rtat K	ate	U		Plat F	Rate	U		rtat	ate	U		rtat	ate	U		
YEAR	ACTIVE	SERVICE			1	OTAL W	TER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,000	4,000	30.4	33.0	32.4	55.9	43.3	50.1	65.5	48.1	52.0	41.9	38.3	47.2	538.1	
1981	4,025	4,025	46.9	34.2	32.7	51.3	46.5	65.7	56.7	52.9	61.1	43.1	34.0	38.2	563.3	
1982	4,070	4,070	33.1	24.0	59.0	52.5	41.1	57.6	48.6	49.5	41.9	39.4	39.7	30.5	516.9	
1983	4,100	4,100	33.1	30.1	37.7	33.0	47.3	47.5	52.7	61.7	45.6	41.0	40.1	30.1	499.9	
1984	4,150	4,150	41.6	34.8	39.8	42.1	61.8	42.0	63.9	52.7	49.1	51.5	34.0	30.7	544.0	
1985	4,169	4,167	43.0	37.0	35.0	41.0	58.0	50.0	64.0	53.0	49.0	52.0	34.0	31.0	547.0	
1986	4,254	4,252	43.0	32.0	34.0	49.0	47.0	44.0	62.0	48.0	44.0	49.0	39.0	34.0	525.0	
1987	4,385	4,383	43.0	34.0	43.0	42.0	44.0	48.0	65.0	54.0	59.0	43.0	34.0	39.0	548.0	
1988	4,497	4,487	33.0	40.0	50.0	40.0	55.0	48.0	51.0	63.0	45.0	36.0	43.0 48.0	32.0 39.0	536.0 509.0	
1989 1990	4,562	4,552	39.0 34.0	33.0 34.0	34.0 36.0	39.0 48.0	49.0 49.0	44.0	47.0 56.0	57.0 43.0	43.0 39.0	37.0 49.0	36.0	34.0	499.0	
1990	4,545	4,539	34.0	34.0	36.0	40.0	47.0	41.0	30.0	43.0	37.0	47.0	30.0	34.0	477.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	TA WATE	R USE	(gpcd)/3	3			1	NNUALLY	
OF	CONNEC-	TION													gpcd	afp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.27	9,064	108	126	115	206	154	184	233	171	191	149	141	168	163	0.1
1981	2.25	9,066	167	135	116	189	165	242	202	188	225	153	125	136	170	0.1
1982	2.24	9,000	117	94	209	192	146	211	172	175	153	139	145	108	155	0.1
1983	2.22	9,122	117	118	133	121	167	174	186	218	167	145	147	106	150	0.1
1984	2.21	9,177	146	131	140	153	217	153	225	185	178	181	124	108	162	0.1
1985	2.20	9,162	151	144	123	149	204	182	225	187	178	183	124	109	164	0.1
1986	2.18	9,290	149	123	118	176	163	158	215	167	158	170	140	118	155	0.1
1987	2.17	9,516	146	128	146	147	149	168	220	183	207	146	119	132	158	0.1
1988	2.16	9,698	110	142	166	137	183	165	170	210	155	120	148	106	151	0.1
1989	2.14	9,775	129	121	112	133	162	150	155	188	147	122	164	129	143	0.1
1990	2.13	9,677	113	125	120	165	163	141	187	143	134	163	124	113	141	0.1

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes aervices for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	SAN LUIS							IS OBISP				ORIGIN	OF WATE	R (in p	ercent):	
	SAN LUIS				AGENCY	• • • • • • •	MUNICI	PAL WATE	R DEPAR	TMENT						
	f												CE WATE		59	
	IC REGION					SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	41	
	SUBAREA															
DAU #	•••••	• • • • • • • • •	67							Х						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL							ITY								
	•••••				ОТН	ER	• • • • • • •	• • • • • • • •	• • • • • • •				ASED		0	
1990	••••••	41,958										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS					-				
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	ed	•			ed				ed	55			ed	196		
Flat R	late	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1000		0.227	420.0	470.0	4// 6	400.0	200.0	224.0	220.0	247.0	200.0	247.0	407.0	440.0	2400.6	
1980 1981	9,223	•				180.0		226.0								
	9,466		147.0					254.0	247.0		220.0	206.0	147.0	138.0	2262.0	
1982	9,466		142.0					212.0					146.0			
1983	9,700	•	151.0					234.0					147.0	132.0		
1984	10,022	•	162.0					255.0				222.0			2562.0	
1985	10,617	•		154.0				277.0							2615.0	
1986	11,053	•						278.0					224.0			
1987	11,504							285.0					166.0			
1988	11,699							249.0							2740.0	
1989	12,022	•						176.0							1957.0	
1990	12,350	12,350	120.0	110.0	127.0	142.0	144.0	134.0	142.0	145.0	133,0	139,0	122.0	102.0	1560.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAI	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	~
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.71	34,252	121	131	136	175	188	220	207	204	203	201	178	139	176	0.197
1981	3.68	34,855	136	133	120	174	204	243	229	223	210	191	141	128	178	0.199
1982	3.65	34,556	133	140	124	150	201	205	218	221	202	186	141	120	170	0.191
1983	3.62	35,103	139	129	125	142	181	222	252	215	218	187	140	121	173	0.194
1984	3.59	35,951	145	153	174	186	235	236	240	239	247	199	156	125	195	0.219
1985	3.56	37,750	138	146	135	189	223	245	250	235	218	211	147	139	190	0.213
1986	3.52	38,950	133	135	137	186	234	238	238	243	205	210	192	147	192	0.215
1987	3.49	40,176	149	142	141	205	221	236	222	237	221	198	138	128	187	0.209
1988	3.46	40,486	139	182	176	189	209	205	221	216	206	199	155	121	185	0.208
1989	3.43	41,224	140	136	134	158	147	142	142	135	120	112	107	88	130	0.146
1990	3.40	41,958	92	94	98	113	111	106	109	111	106	107	97	78	102	0.114
AVERAGE			133	138	136	170	196	209	212	207	196	182	144	121	171	0.191

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN LUIS			WATER A								ORIGIN (OF WATE	(in pe	ercent):	
CITY	ARROYO GR	ANDE		TYPE OF	AGENCY.		UNICIP	AL WATE	R DEPAR	THENT						
		•••••										SURFA	CE WATER	t	95	
HYDROLOG	IC REGION	l (CENTRAL	COAST		SYSTE	4 SERVE	S:				WELLS	AND SPI	RINGS	5	
PLANN ING	SUBAREA	#	SOUTHER	N												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	68					•••••								
								OUTSIDE		Х		SOURCE (OF WATE	(in pa	ercent):	
	SUS POPUL							TY								
					OTHE	R	• • • • • • •	•••••	•••••				ASED		95	
1990	• • • • • • • • • • • • • • • • • • • •	14,378										SELF S	SUPPLIE		5	
					SERVICE	CONNECT		•								
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed	357			ed	1			ed	70		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat I	Rate	0		
140																
YEAR		SERVICE			1	TOTAL W	ATER IN	TO SYST	EM (MIL	LION GAI	LLONS)					
OF		TIONS /2			***	485	****			4115					******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3.687	3,613	36.0	33.0	42.0	56.0	65.0	73.0	74.0	74.0	61.0	58.0	57.0	45.0	674.0	
1981	3,678	3,668	45.0	33.0	40.0	61.0	73.0	88.0	80.0	81.0	70.0	59.0	49.0	43.0	722.0	
1982	3,686	3,676	42.0	38.0	38.0	49.0	76.0	76.0	87.0	77.0	68.0	69.0	42.0	38.0	700.0	
1983	3,948	3,938	49.0	35.0	38.0	50.0	66.0	80.0	97.0	78.0	75.0	66.0	46.0	46.0	726.0	
1984	4,114	4,104	47.0	53.0	65.0	72.0	98.0	98.0	88.0	92.0	95.0	76.0	46.0	45.0	875.0	
1985	4,177	4,167	46.0	48.0	49.0	77.0	92.0	102.0	102.0	92.0	93.0	83.0	61.0	52.0	897.0	
1986	4,305	4,295	54.0	45.0	54.0	77.0	92.0	103.0	104.0	101.0	79.0	77.0	74.0	61.0	921.0	
1987	4,400	4,293	58.0	52.0	53.0	81.0	92.0	100.0	105.0	108.0	95.0	82.0	66.0	51.0	943.0	
1988	4,762	4,751	54.0	69.0	83.0	81.0	91.0	104.0	101.0	98.0	88.0	84.0	71.0	64.0	988.0	
1989	5,023	5.012	53.0	54.0	64.0	87.0	91.0	96.0	106.0	98.0	79.0	79.0	75.0	77.0	959.0	
1990	4,970	4,959	60.0	54.0	70.0	76.0	87.0	95.0	99.0	95.0	89.0	83.0	73.0	72.0	953.0	
1770	4,510	7,737	00.0	<i>7</i> 4.0	70.0	70.0	67.0	73.0	77.0	73.0	09.0	۵.0	73.0	72.0	733.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/3	5				NNUALLY	
OF	CONNEC-	TION													gpcd	efpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.12	11,521	101	99	118	162	182	211	207	207	176	162	165	126	160	0.180
1981	3.10	11,410	127	103	113	178	206	257	226	229	204	167	143	122	173	0.194
1982	3.08	11,352	119	120	108	144	216	223	247	219	200	196	123	108	169	0.189
1983	3.06	12,070	131	104	102	138	176	221	259	208	207	176	127	123	165	0.185
1984	3.03	12,485	121	146	168	192	253	262	227	238	254	196	123	116	192	0.215
1985	3.01	12,582	118	136	126	204	236	270	262	236	246	213	162	133	195	0.219
1986	2.99	12,870	135	125	135	199	231	267	261	253	205	193	192	153	196	0.220
1987	2.97	13,055	143	142	131	207	227	255	259	267	243	203	169	126	198	0.222
1988	2.94	14,022	124	170	191	193	209	247	232	225	209	193	169	147	193	0.216
1989	2.92	14,677	116	131	141	198	200	218	233	215	179	174	170	169	179	0.200
1990	2.90	14,410	134	134	157	176	195	220	222	213	206	186	169	161	181	0.203
AVERAGE			125	128	135	181	212	241	240	228	212	187	156	135	182	0.204

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COLINITY	SANTA BAR	DADA		LIATED A	CENCA		CANTA N	WRIA. C	ITV OF			OPTOIN	OF LIATE	D (in m		
	SANTA MAR							AL WATE		THENT		OKIGIN	OF MAIL	k (in p	ercent):	
				TIPE OF	MUCHUI	• • • • • • •	HUNICIP	AL MAIE	K DEPAR	IPERI		~				
				00407		OVOTE							CE WATE			
						21215	M SERVE	:5:				WELLS	AND SP	RINGS	100	
		#		CPU	-											
DAU #		•••••	. 71					•••••								
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL							ΤΥ								
					OTH	ER	•••••	•••••	•••••			PURCH	ASED		0	
1990		61,284										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNIM	ENTAL:			
Metere	d	12,806		Heter	ed	1,323		Meter	ed	109		Heter	ed	NA		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EN (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	10,912	10.912	150.0	145.0	163.0	251.0	277.0	299.0	313.0	292.0	253.0	281.0	217.0	211.0	2852.0	
1981	11,690	11,690		147.0	153.0		281.0		347.0	290.0	270.0	245.0			2833.0	
1982	12, 172	,			168.0							247.0			2709.0	
1983	12,657							328.0				252.0			2902.0	
1984	12,761	12,761						359.0				276.0			3442.0	
1985	13,378			199.0					402.0	410.0		306.0			3467.0	
1986	13,633			196.0			388.0		405.0	396.0	309.0	331.0			3597.0	
1987	13,559	13,559			216.0		344.0	385.0	433.0	387.0	396.0	331.0	201.0		3648.0	
1988	13,973				303.0					415.0	390.0	310.0	265.0		3860.0	
1989	14,261	14,261						443.0				330.0			4062.0	
1990	•	•														
1990	14,238	14,236	242.0	220.0	201.0	332.0	359.0	400.0	413.0	449.0	321.0	345.0	330.0	237.0	3929.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.64	39,685	122	126	132	211	225	251	254	237	213	228	182	172	197	0.221
1981	3.70	43,295	137	121	114	173	209	257	259	216	208	183	132	138	179	0.201
1982	3.77	45,892	101	119	118	150	179	206	233	217	195	174	124	122	162	0.181
1983	3.84	48,566	121	104	100	142	182	225	248	217	214	167	121	118	164	0.183
1984	3.90	49,816	119	140	185	189	245	240	236	255	208	179	143	125	189	0.212
1985	3.90	53.118	111	134	129	179	221	221	244	249	194	186	144	131	179	0.200
1986	4.04	55,040	138	127	121	162	227	219	237	232	187	194	156	142	179	0.20
1987	4.10	55,646	131	133	125	179	199	231	251	224	237	192	120	129	180	0.201
												-				
1988	4.17	58,278	102	154	168	174	200	220	237	230	223	172	152	139	181	0.203
1989	4.24	60,431	114	130	157	178	206	244	224	227	199	176	178	172	184	0.200
1990	4.30	61,284	127	128	148	181	189	218	217	236	175	182	179	125	176	0.197
AVERAGE			120	129	136	174	208	230	240	231	205	185	148	138	179	0.201

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

SYSTEM #		BARA		WATER A								ORIGIN	OF WATE	R (in p	ercent):	
	LOMPOC			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
YDROLOG	f											SURFA	CE WATE	R	0	
	IC REGION	• • • • • • • •	CENTRAL	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
LANNING	SUBAREA	#	SOUTHER	IN .												
AU #			74		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		26,267			OTH	ER						PURCH	ASED		0	
1990		37,649										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	8,428		Meter	ed	219		Meter	ed	NA		Meter	ed	61		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,844	6,782	75.0	70.0	73.0	98.0	110.0	132.0	136.0	133.0	121.0	106.0	93.0	82.0	1229.0	
1981	7,003	6,939	76.0	70.0	70.0	91.0	114.0	134.0	136.0	125.0	110.0	104.0	77.0	81.0	1188.0	
1982	7,157	7,093	75.0	69.0	76.0	82.0	118.0	122.0	135.0	131.0	110.0	108.0	78.0	81.0	1185.0	
1983	7,250	7,153	90.0	80.0	89.0	92.0	106.0	106.0	154.0	138.0	123.0	140.0	97.0	86.0	1301.0	
1984	7,655	7,548	85.0	82.0	113.0	121.0	152.0	149.0	151.0	148.0	143.0	120.0	99.0	87.0	1450.0	
1985	7,828	7,791	96.0	85.0	100.0	125.0	144.0	155.0	161.0	148.0	150.0	129.0	89.0	102.0	1484.0	
1986	8,052	8.023	104.0	89.0	109.0	128.0	159.0	180.0	182.0	182.0	140.0	138.0	119.0	108.0	1638.0	
1987	8,216	8,184	101.0	89.0	108.0	128.0	152.0	165.0	164.0	181.0	159.0	142.0	102.0	102.0	1593.0	
1988	8,187	8,147	104.0	117.0	132.0	129.0	160.0	177.0	188.0	186.0	164.0	151.0	119.0	118.2	1745.2	
1989	8,358	8,325	119.0	106.0	123.0	158.0	168.0	190.0	197.0	187.0		149.0		135.0	1830.0	
1990	8,708	8,675	112.0	102.0	122.0	121.0		147.0	163.0	168.0	151.0	142.0	121.0	112.0	1606.0	
	PERSONS	AVEDACE											,			
EAR	PERSONS	POPULA-					DED CAD	TTA LIAT	ED LICE	(gpcd)/	7				ANNUALLY	
OF.	CONNEC-	TION				1	PER LAP	TIV MAI	EK USE	(gpcu)/	3				gpcd	af
CORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/
1980	3.87	26,507	91	91	89	123	134	166	166	162	152	129	117	100	127	0.1
4004	3.92	27,450	89	91	82	111	134	163	160	147	134	122	94	95	119	0.1
1981	3.97	28,388	85	87	86	96	134	143	153	149	129	123	92	92	114	0.1
1981	4.01	29,095	100	98	99	105	118	121	171	153	141	155	111	95	123	0.1
.,		31,078	88	91	117	130	158	160	157	154	153	125	106	90	128	0.1
1982	4.06			01	100	130	145	161	162	149	156	129	92	102	126	0.1
1982 1983		32,146	96	94	100				4774	47/	140	133				
1982 1983 1984	4.06		96 100	95	105	128	153	179	176	176	140	133	119	104	134	0.
1982 1983 1984 1985	4.06 4.11	32,146				128 124	153 142	179 159	1/6	169	154	133	119 99	104 95	134 126	
1982 1983 1984 1985 1986	4.06 4.11 4.15	32,146 33,441	100	95	105											0.1
1982 1983 1984 1985 1986 1987	4.06 4.11 4.15 4.20	32,146 33,441 34,506	100 94	95 92	105 101	124	142	159	153	169	154	133	99	95	126	0.1
1982 1983 1984 1985 1986 1987 1988	4.06 4.11 4.15 4.20 4.25	32,146 33,441 34,506 34,767	100 94 96	95 92 116	105 101 122	124 124	142 148	159 170	153 174	169 173	154 157	133 140	99 114	95 110	126 138	0.1 0.1 0.1 0.1
1982 1983 1984 1985 1986 1987 1988 1989	4.06 4.11 4.15 4.20 4.25 4.29	32,146 33,441 34,506 34,767 35,883	100 94 96 107	95 92 116 106	105 101 122 111	124 124 147	142 148 151	159 170 176	153 174 177	169 173 168	154 157 146	133 140 134	99 114 131	95 110 121	126 138 140	0.

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SANTA BAR	BARA			GENCY AGENCY.					MENT		ORIGIN (OF WATER	(in p	ercent):	
				TIPE OF	AGENCY.		HUNICIPA	L WATER	DEPAR	MENT		CUDEA	CE WATER		0	
				COAST		CVCTE	4 SERVES						AND SPE		100	
		#				31316	1 SERVES	•				MELLS	AND SPI	CINGS	100	
		*********	74	-	ENTI	DE CITY	1			x						
/AU #		• • • • • • • • • • • • • • • • • • • •	14				PLUS C			^		coliner (DE MATER	· /:	ercent):	
CITY CEN	SUS POPUL	ATTON					THE CIT					SUUKLE (JP WATER	(In p	ercent):	
	SUS PUPUL	2,800										DI IDOU	ASED		25	
					OTHE	K	•••••								-	
1990		4,741			SERVICE	COMME	TIONS .	14				SELF :	SUPPLIED	·····	75	
ESIDENTI	7.81 -			COMMERC		CONNEC		NDUSTRI				GOVERNME	THE .			
		2 048				222								3		
	d	2,068			ed	0			d	NA			ed	_		
FLAT KE	ate	U		FLAT	Rate	U		rtat k	late	NA		rtat i	Rate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL W	ATER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,000	990	14.0	15.0	18.0	29.0	33.0	44.0	48.0	57.0	40.0	44.0	35.0	24.0	401.0	
1981	1,066	1,057	24.0	18.0	20.0	37.0	50.0	70.0	80.0	74.0	58.0	41.0	29.0	25.0	526.0	
1982	1,113	1,104	19.0	21.0	22.0	29.0	55.0	61.0	77.0	84.0	56.0	44.0	23.0	19.0	510.0	
1983	1,178	1,169	21.0	16.0	18.0	29.0	41.0	55.0	68.0	62.0	56.0	36.0	21.0	19.0	442.0	
1984	1,255	1,246	23.0	29.0	47.0	53.0	69.0	73.0	78.0	75.0	67.0	48.0	27.0	21.0	610.0	
1985	1,317	1,308	23.2	25.5	30.7	50.5	67.7	77.6	85.0	77.7	63.0	52.4	31.8	29.2	614.3	
1986	1,398	1,389	30.0	22.0	29.0	48.0	78.0	82.0	86.0	84.0	62.0	55.0	49.0	34.0	659.0	
1987	1,428	1,419	30.0	29.0	31.0	60.0	73.0	79.0	84.0	84.0	70.0	52.0	28.0	30.0	650.0	
1988	1,483	1,482	27.0	38.0	52.0	52.0	70.0	77.0	90.0	93.0	72.0	57.0	40.0	33.0	701.0	
1989	1,598	1,591	28.0	28.0	42.0	64.0	71.0	77.0	83.0	80.0	61.0	.52.0	48.0	42.0	676.0	
1990	2,295	2,295	29.0	26.0	37.0	52.0	65.0	72.0	78.2	76.9	63.9	58.7	45.6	35.5	639.8	
YEAR	PERSONS	AVERAGE					NED 0401	TA 114TF	n Hor d		,				ANNUALLY	
OF	CONNEC-	POPULA-				,	PER CAPI	IA WATE	IK USE (gpca)/3	•					-4
ECORD	TION	TION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	af
ECORD		SERVED	JAN	FEB	MAK	AFK	- mai	JUN	JUL	AUG	SEP		NOV	DEC		
1980	2.83	2,828	160	183	205	342	376	519	547	650	471	502	413	274	388	0.4
1981	2.75	2,934	264	219	220	420	550	795	880	814	659	451	330	275	491	0.5
1982	2.68	2,978	206	252	238	325	596	683	834	910	627	477	257	206	469	0.5
1983	2.60	3,062	221	187	190	316	432	599	716	653	610	379	229	200	395	0.4
1984	2.52	3,167	234	316	479	558	703	768	795	764	705	489	284	214	528	0.5
1985	2.45	3,223	232	283	307	522	678	803	851	778	652	524	329	292	522	0.5
1986	2.37	3,314	292	237	282	483	759	825	837	818	624	535	493	331	545	0.6
	2.29	3,277	295	316	305	610	719	804	827	827	712	512	285	295	543	0.6
1987		3,290	265	398	510	527	686	780	883	912	730	559	405	324	584	0.6
1987 1988	2.22															
	2.22	3,423	264	292	396	623	669	750	782	754	594	490	467	396	541	0.6
1988		3,423 4,741	264 197	292 196	396 252	623 366	669 442	750 506	782 532	754 523	594 449	399	467 321	396 242	541 370	0.6

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

	SANTA BAR							ERIA COL		ILK DIS	KIGI	OW I GILL (A MALIE	(in pe	cent):	
	LARPINIER			TIPE OF	AGENCI		OBLIC	WATER DI	SIKICI			CIPEAC	E WATER		70	
	IC REGION			TOAST		CYCTEM	SERVE	· ·					AND SPI		30	
	SUBAREA					31316	1 SERVE	.3.				MCLLS	MILL ST	CINGS	30	
			75		ENTI	RE CITY										
JAU #								OUTSIDE.		x		SOURCE C	DE MATER	(in pe	rcent):	
CITY CEN	ISUS POPUL	ATION						ΤΥ								
1980		10.835			OTHE	R						PURCHA	ASED		70	
		•										SELF S	SUPPLIE		30	
					SERVICE	CONNECT	IONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	d	2,984		Heter	ed	358		Hetere	d	54		Metere	ed	45		
Flat R	ate	0		Flat F	late	0		Flat F	ate	0		Flat F	late	0		
YEAR	ACTIVE	SERVICE			1	OTAL W	TER IN	TO SYSTE	M (MIL	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOA	DEC	ANNUAL	
4000											٠				٠	
1980	2,932	2,308	40.0	40.0	47.0	47.0	63.0	63.0	81.0	81.0	62.0	62.0	53.0	53.0	692.0	
1981	2,914	2,419	33.0	61.0	26.0	61.0	68.0	90.0	66.0	132.0	21.0	89.0	33.0	57.0	737.0	
1982	3,074	2,566	27.0	46.0	40.0	45.0	70.0	67.0	87.0 30.0	72.0	38.0 53.0	61.0	30.0	33.0	616.0	
1983	2,945	2,445	16.0	61.0	24.0	57.0			31.0	103.0	57.0	72.0 93.0	40.0	58.0	640.0	
1984	3,022	2,522	27.0	62.0	45.0	86.0		122.0						61.0	793.0	
1985	3,102	2,579	28.0	61.0	31.0	76.0	51.0			104.0	59.0	93.0	40.0	64.0	769.0	
1986	3,211	2,657	32.0	66.0	27.0	69.0	47.0	93.0		109.0	54.0	87.0	42.0	73.0	761.0	
1987	3,339	2,789	35.0	69.0 69.0	33.0 42.0	77.0 81.0	56.0 51.0	98.0 97.0	62.0	112.0	63.0 59.0	95.0 86.0	38.0 45.0	66.0 73.0	804.0	
1988	3,339	2,789	29.0 32.0	70.0	35.0	75.0	51.0	105.0	61.0	109.0	54.0	87.0	45.0	77.0	802.0	
1989	3,367	2,825														
1990	3,441	2,866	63.0	47.0	62.0	49.0	50.0	60.0	70.0	70.0	51.0	57.0	55.0	45.0	679.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	TTA WATE	R USE	(gpcd)/3	5			A	NNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.69	13,764	94	100	110	114	148	153	190	190	150	145	128	124	138	0.154
1981	4.70	13,710	78	159	61	148	160	219	155	311	51	209	80	134	147	0.165
1982	4.71	14,494	60	113	89	103	156	154	194	160	87	136	69	73	116	0.130
1983	4.73	13,916	37	157	56	137	79	240	70	239	127	167	77	134	126	0.141
1984	4.74	14,310	61	149	101	200	138	284	70	243	133	210	93	138	152	0.170
1985	4.75	14,721	61	148	68	172	112	222	140	228	134	204	91	140	143	0.160
1986	4.76	15,271	68	154	57	151	99	203	131	230	118	184	92	154	137	0.153
1987	4.77	15,914	71	155	67	161	114	205	126	227	132	193	80	134	138	0.155
1988	4.78	15,948	59	149	85	169	103	203	123	237	123	174	94	148	139	0.156
1989	4.79	16,116	64	155	70	155	102	217	122	218	112	174	95	154	136	0.153
1990	4.80	16,505	123	102	121	99	98	121	137	137	103	111	111	88	113	0.126

70 140 80 146 119 202 132 220 115 173 92 129 135 0.151

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SANTA BAR	BARA		WATER A	GENCY		GOLETA	WATER D	ISTRICT			ORIGIN	OF WATE	R (in p	ercent):	
C1TY	GOLETA			TYPE OF	AGENCY		PUBLIC	HATER D	ISTRICT							0.0
SYSTEM #			42004									SURFA	CE WATE	R	75	
HYDROLOG	IC REGION		CENTRAL	COAST		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	25	
PLANNING	SUBAREA	#	SOUTHER	RN												
DAU #			75		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ						·		
1980		68,730			OTH	ER				х		PURCH	ASED		76	
1990		70,480										SELF	SUPPLIE	D	24	
		-			SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	12,595		Meter	ed	935		Meter	ed	0		Meter	ed	NA		
	ate	•			Rate	0			Rate	0			Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	13,960	13,960	212.0	212.0	218.0	255.0	298.0	342.0	371.0	360.0	333.0	310.0	286.0	264.0	3461.0	
1981	13,962	13,962	241.0	225.0	218.0	243.0	296.0	351.0	386.0	361.0	329.0	303.0	273.0	245.0	3471.0	
1982	13,882	13,882	179.0	282.0	215.0	287.0	401.0	348.0	389.0	242.0	271.0	326.0	133.0	146.0	3219.0	
1983	12,470	12,470	219.0	196.0	218.0			370.0	427.0	371.0	369.0	266.0	222.0	139.0	3380.0	
1984	12,756	12,756	238.0	330.0	449.0	360.0	457.0	380.0	427.0	427.0	365.0	313.0	121.0	173.0	4040.0	
1985	12,664	12,664	232.0	233.0			418.0		458.0		389.0	335.0	226.0		3974.0	
1986	12,906	12,906	236.0	200.0			325.0		397.0	385.0	320.0	308.0	268.0	216.0	3653.0	
1987	13,010	13.010	218.0	231.0		415.0		378.0	361.0	410.0	322.0	263.0	158.0	224.0		
1988	13,189	13,189			322.0						287.0	250.0	187.0		3519.0	
1989	13, 184	13.184			228.0						172.0			155.0		
1990	13,750				163.0							•	152.0			
	PERSONS	AVEDACE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	FR LISE	(appd)/	3				ANNUALLY	
OF	CONNEC-	TION					i an unit	· IA MAI		·spru//	-				gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/
			unn	1.0	LBAIL	Mr.K				74.03						
1980	4.92	68,730	100	106	102	124	140	166	174	169	162	145	139	124	138	0.1
1981	4.94	69,023	113	116	102	117	138	170	180	169	159	142	132	115	138	0.1
1982	4.96	68,908	84	146	101	139	188	168	182	113	131	153	64	68	128	0.1
1983	4.98	62,152	114	113	113	134	173	198	222	193	198	138	119	72	149	0.1
1984	5.00	63,835	120	178	227	188	231	198	216	216	191	158	63	87	173	0.1
1985	5.02	63,631	118	131	134	193	212	212	232	214	204	170	118	113	171	0.1
1986	5.04	65,109	117	110	124	176	161	207	197	191	164	153	137	107	154	0.1
1987	5.07	65,897	107	125	103	210	203	191	177	201	163	129	80	110	150	0.1
1988		-	107	155	155	150	176	200	160	181	143	120	93	87	144	0.1
1989	5.09	67,070	102 95	105	109		101	133	103	121	85	101	83	74		
1990	5.11	67,312	63 20		75	156 82	71		89	67	83	80			105	0.1
1990	5.13	70,480	ಎ	69	13	62	71	86	69	0/	ಎ	80	72	65	75	0.0
VERAGE			103	123	122	152	163	175	176	167	153	135	100	93	139	0.1

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	SANTA BAR				GENCY					ICT		ORIGIN	OF WATE	R (in p	ercent):	
	MONTECITO			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
												SURFA	CE WATE	R	87	
HYDROLOG	IC REGION		CENTRAL	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	13	
PLANNING	SUBAREA	#	SOUTHER	RN												
DAU #			75		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		9,740			OTH	ER				X		PURCH	ASED		48	
1990		11,490										SELF	SUPPLIE	D	52	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	1AL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	3,059		Meter	ed	68		Meter	ed	0		Meter	ed	6		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	IO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2					,									
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,000	3,000	/5	-	-	-	-	-	-	-	-	-				
1981	3,040	3,040		-	-		-	-	-			-				
1982	3,080	3,080	52.0	48.0	53.0	48.0	72.0	72.0	84.0	85.0	76.0	69.0	53.0	39.0	751.0	
1983	3,162	3,162	46.0	59.0	52.0	67.0	118.0	137.0	174.0	190.0	127.0	137.0	62.0	49.0	1218.0	
1984	3,100	3,100	68.0	109.0	137.0	165.0	198.0	169.0	198.0	193.0	164.0	150.0	80.0	67.0	1698.0	
1985	3,175	3,175	82.0	63.0	77.0	118.0	169.0	188.0	217.0	196.0		145.0	97.0		1600.0	
1986	3,109	3,109	92.0	73.0	73.0	116.0	174.0	179.0	204.0	200.0	161.0	143.0	134.0		1660.0	
1987	3,295	3,295	96.0	80.0	82.0	157.0	159.0	176.0	173.0	205.0	179.0	132.0	76.0		1592.0	
1988	3,377	3,377	54.0	74.0	76.0	133.0	111.0	137.0	163.0	139.0	174.0	110.0	74.0	102.0	1347.0	
1989	3,424	3,424	85.0	64.0	97.0	143.0	155.0	155.0	174.0	161.0	141.0	120.0			1512.0	
1990	3,444	3,444	88.0	67.0	104.0	161.0		184.0		185.0		138.0			1708.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USF	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION					an uni			- SP-4//	-				good	afpce
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
	3.25	9,740	-	-	-	-	-	-	-	-	-	-		-	-	-
1980	0103	7,140														
1980 1981	3.26	9,897	-	-		-	-	-	-	-	-	-	-	-	-	-
			167	- 170	- 170	- 159	- 231	- 239	- 269	- 273	- 252	221	176	125	205	0.229
1981	3.26	9,897														
1981 1982	3.26 3.26	9,897 10,055	167	170	170	159	231	239	269	273	252	221	176	125	205	0.229
1981 1982 1983	3.26 3.26 3.27	9,897 10,055 10,351	167 143	170 204	170 162	159 216	231 368	239 441	269 542	273 592	252 409	221 427	176 200	125 153	205 322	0.229 0.361 0.512
1981 1982 1983 1984	3.26 3.26 3.27 3.28	9,897 10,055 10,351 10,176	167 143 216	170 204 369	170 162 434	159 216 541	231 368 628	239 441 554	269 542 628	273 592 612	252 409 537	221 427 476	176 200 262	125 153 212	205 322 457	0.229 0.361 0.512
1981 1982 1983 1984 1985	3.26 3.26 3.27 3.28 3.29	9,897 10,055 10,351 10,176 10,450 10,261	167 143 216 253	170 204 369 215	170 162 434 238	159 216 541 376	231 368 628 522	239 441 554 600	269 542 628 670	273 592 612 605	252 409 537 539	221 427 476 448	176 200 262 309	125 153 212 244	205 322 457 419	0.229 0.361 0.512 0.470 0.496
1981 1982 1983 1984 1985 1986 1987	3.26 3.26 3.27 3.28 3.29 3.30 3.31	9,897 10,055 10,351 10,176 10,450 10,261 10,904	167 143 216 253 289 284	170 204 369 215 254 262	170 162 434 238 229 243	159 216 541 376 377 480	231 368 628 522 547 470	239 441 554 600 581 538	269 542 628 670 641 512	273 592 612 605 629 606	252 409 537 539 523 547	221 427 476 448 450 390	176 200 262 309 435 232	125 153 212 244 349 228	205 322 457 419 443 400	0.229 0.361 0.512 0.470 0.496 0.448
1981 1982 1983 1984 1985 1986 1987 1988	3.26 3.26 3.27 3.28 3.29 3.30 3.31 3.32	9,897 10,055 10,351 10,176 10,450 10,261 10,904 11,206	167 143 216 253 289 284 155	170 204 369 215 254 262 228	170 162 434 238 229 243 219	159 216 541 376 377 480 396	231 368 628 522 547 470 320	239 441 554 600 581 538 408	269 542 628 670 641 512 469	273 592 612 605 629 606 400	252 409 537 539 523 547 518	221 427 476 448 450 390 317	176 200 262 309 435 232 220	125 153 212 244 349 228 294	205 322 457 419 443 400 329	0.229 0.361 0.512 0.470 0.496 0.448 0.369
1981 1982 1983 1984 1985 1986 1987	3.26 3.27 3.28 3.29 3.30 3.31 3.32 3.33	9,897 10,055 10,351 10,176 10,450 10,261 10,904 11,206 11,393	167 143 216 253 289 284 155 241	170 204 369 215 254 262 228 201	170 162 434 238 229 243 219 275	159 216 541 376 377 480 396 418	231 368 628 522 547 470 320 439	239 441 554 600 581 538 408 454	269 542 628 670 641 512 469 493	273 592 612 605 629 606	252 409 537 539 523 547	221 427 476 448 450 390 317 340	176 200 262 309 435 232	125 153 212 244 349 228	205 322 457 419 443 400 329 364	0.229 0.361 0.512 0.470 0.496 0.448 0.369 0.407
1981 1982 1983 1984 1985 1986 1987 1988 1989	3.26 3.26 3.27 3.28 3.29 3.30 3.31 3.32	9,897 10,055 10,351 10,176 10,450 10,261 10,904 11,206	167 143 216 253 289 284 155	170 204 369 215 254 262 228	170 162 434 238 229 243 219	159 216 541 376 377 480 396	231 368 628 522 547 470 320	239 441 554 600 581 538 408	269 542 628 670 641 512 469	273 592 612 605 629 606 400 456	252 409 537 539 523 547 518 413	221 427 476 448 450 390 317	176 200 262 309 435 232 220 336	125 153 212 244 349 228 294 289	205 322 457 419 443 400 329	0.229 0.361 0.512 0.470 0.496 0.448 0.369

^{1/} Number of services

^{2/} Excludes aervices for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

CITY	SANTA BA	ARBARA		TYPE C	AGENCY.	· · · · · · · · · · · · · · · · · · ·	.SANTA .MUNICI	BARBARA PAL WAT	, CITY ER DEPA	OF RTMENT		ORIGIN	OF WAT	ER (in j	percent)	
												SUR F	ACE WATE	ER	. 68	
		ON \ #				SYST	EM SERV	ES:				WELL	S AND SI	PRINGS.	. 32	
DAU W .	********	********	. />					• • • • • • •								
CITY CE	NSUS POPU	UATION						OUTSID				SOURCE	OF WATE	R (in p	percent):	
		. 74,542						ITY								
		. 85,571			011	ER	• • • • • • •	• • • • • •	• • • • • • •	•		PURC	HASED		61	
.,,,,		. 05,571			CEDVICE	COMME						SELF	SUPPLIE	D	39	
RESIDEN	TIAL:			COMMER	SERVICE	CONNE	CITONS		_							
		. 21,405				2 70/		INDUST				GOVERN	MENTAL:			
	Rate				red Rate	-			ed				red			
				rtat	Kate	0		Flat	Rate	. 0		Flat	Rate	NA		
YEAR OF		SERVICE CTIONS /2				TOTAL &	ATER I)	ITO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUA	
1980	20,645	10 805	273 0	2/1 0	72/ ^	/00.0	700									
1981	22,137	21 207	320.0	278 0	326.0 280.0	409.U	389.0	488.0	515.0	505.0			403.0	349.0	4742.0	
1982	22,012	21 172	242 0	275.0	325.0	305.0	3/4.0					389.0	305.0	299.0	4595.0	
	/5	21,172	351 0	280 0	310.0	300.0	382.0	436.0	566.0				295.0		4391.0	
1984	23.065	22.116	352.0	371 0	410.0	/94 0	413.U	393.0		515.0			337.0		-	
1985	24.040	23.091	320.0	338 0	354.0		503.0		592.0	583.0			334.0			
1986	24,935				339.0		510.0	533.0	594.0	529.0		463.0		346.0		
1987	•		366.0	333.0	346.0	458 0	/97 0	534.0		570.0			439.0		5306.0	
1988	24,100	23,000			454.0			539.0	544.0 521.0	565.0			332.0			
1989	24,207	-					456.0	468 0	480.0	/79.0	498.0	467.0	389.0	348.0		
1990	24,146	22,933	290.0	259.0	262.0	236.0	245.0	249.0	276.0	256.0	248.0	254.0	248.0	354.0 256.0	4889.0	
												-				
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TA WATE	R USF	(gpcd)/3	ξ.					
OF	CONNEC-	TION												^	NNUALLY	
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	afpca /4
1980	3.76	77,704	113	107	135	175	161	209	214	210	179	177	173	145	167	0.187
1981	3.76	83,247	124	119	108	142	145	205	208	193	179	151	122	116	151	0.169
1982	3.76	82,706	94	101	127	123	149	176	221	206	160	156	119	110	145	0.163
1983	3.75		-	-	-	-	-	-	-	_		-	-	-	-	0.103
1984	3.75	86,513	131	148	153	187	194	213	221	217	194	175	129	117	174	0.195
1985	3.75	90,092	115	134	127	161	180	197	213	189	203	166	134	124	162	0.181
1986	3.74	93,365	120	109	117	148	179	191	194	197	165	162	157	125	156	0.174
1987	3.74	00	-	-	-	-	-	-		-	•	-	-	-		-
1988	3.74	90,082	114	145	163	157	186	199	187	188	184	167	144	125	164	0.183
1989	3.73	90,403	117	126	140	159	163	173	174	171	156	138	136	126	148	0.166
1990	3.73	90,097	104	103	94	87	88	92	99	92	92	91	92	92	94	0.105
AVERAGE			115	121	129	149	161	184	192	185	168	154	134	120	151	0.169

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

1/ Number of services

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data unavailable



Santa Ana PSA-03
Oranga (96)
Riverside North (98)
San Bernardino (100)
Riverside South (104)
San Diego PSA-04
Temecula (110)
Viejo (114)



PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

Table A-6. South Coast Region Water Production and Per Capita Water Use

	VENTURA							LO, CIT				ORIGIN	OF WATE	R (in p	ercent):	
	CAMARILLO			TYPE OF	AGENCY		MUNICIF	PAL WATE	R DEPAR	THENT						
														R		
	IC REGION					SYSTE	M SERVE	:5:				WELLS	AND SP	RINGS	51	
	SUBAREA			LARA												
DAU #		• • • • • • • • •	81							Х						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							ΤΥ								
		•			ОТНІ	ER		• • • • • • • •	• • • • • • • • • • • • • • • • • • • •				ASED		49	
1990		52,303										SELF	SUPPLIE	D	51	
					SERVICE	CONNEC	TIONS	* .								
RESIDENT		0.70/		COMMERC				INDUSTR		20		GOVERNM		-4-		
	d	•			ed				ed	20			ed			
Flat Ra	ate	0		Flat	Rate	8		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	8,293	8,293	/5	-	-		-	-	272.0	245.0	194.0	212.0	203.0	157.0	-	
1981	8,300	8,300	146.0	120.0	129.0	207.0	245.0	299.0	295.0	267.0	236.0	202.0	161.0	137.0	2444.0	
1982	8,446	8,446	124.0	151.0	129.0	162.0	233.0	234.0	287.0	255.0	211.0	224.0	146.0	130.0	2286.0	
1983	8,518	8,518	156.0	100.0	109.0	149.0	218.0	251.0	280.0	235.0	215.0	175.0	136.0	112.0	2136.0	
1984	8,657	8,657	188.0	191.0	252.0	244.0	289.0	289.0	311.0	281.0	235.0	248.0	149.0	121.0	2798.0	
1985	8,845	8,845	159.0	153.0	167.0	251.0	256.0	310.0	315.0	295.0	259.0	238.0	163.0	165.0	2731.0	
1986	8,902	8,902	168.0	113.0	139.0	193.0	256.0	269.0	283.0	251.0	200.0	232.0	196.0	180.0	2480.0	
1987	8,955	8,955	158.0	147.0	166.0	256.0	271.0	263.0	273.0	288.0	241.0	193.0	144.0	127.0	2527.0	
1988	9,042	9,042	140.0	170.0	222.0	204.0	263.0	263.0	283.0	256.0	232.0	230.0	174.0	176.0	2613.0	
1989	9,083	9,083	180.0	140.0	199.0	248.0	251.0	292.0	307.0	272.0	257.0	245.0	245.0	235.0	2871.0	
1990	9,343	9,343	171.0	151.0	211.0	208.0	237.0	252.0	266.0	253.0	248.0	252.0	233.0	231.0	2713.0	
	PERSONS	AVERAGE		•												
YEAR	PER	POPULA-					PER CAI	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.55	37,732	-	-	-			-	233	209	171	181	179	134	·····	
1981	4.65	38,634	122	111	108	179	205	258	246	223	204	169	139	114	173	0.194
1982	4.76	40,199	100	134	104	134	187	194	230	205	175	180	121	104	156	0.174
1983	4.86	41,434	121	86	85	120	170	202	218	183	173	136	109	87	141	0.158
1984	4.97	43,018	141	153	189	189	217	224	233	211	182	186	115	91	178	0.200
1985	5.07	44,879	114	122	120	186	184	230	226	212	192	171	121	119	167	0.187
1986	5.18	46,102	118	88	97	140	179	194	198	176	145	162	142	126	147	0.165
1987	5.28	47,315	108	111	113	180	185	185	186	196	170	132	101	87	146	0.164
1988	5.39	48,722	93	120	147	140	174	180	187	169	159	152	119	117	147	0.165
1989	5.49	49,895	116	100	129	166	162	195	198	176	172	158	164	152	158	0.177
1990	5.60	52,303	105	103	130	133	146	161	164	156	158	155	148	142	142	0.159

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing date unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

A-104

	VENTURA				GENCY					DISTRIC	ı	ORIGIN (OF WATE	K (in p	ercent):	
	CAMARILLO			TYPE OF	AGENCY		PUBLIC	WATER D	STRICT							
												SURFA	CE WATE	R	82	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	18	
PLANN ING	SUBAREA :	#	SANTA C	LARA												
AU #		• • • • • • • •	81		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	η								
1980		10,000			OTH	ER						PURCH	ASED		82	
1990		24,000										SELF	SUPPL IE	D	18	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Hetere	d	4,651		Meter	ed	131		Meter	ed	NA		Meter	ed	86		
	ate	0			Rate	0			Rate	0		Flat	Rate	0		
YEAR	ACT IVE	SERVICE				TOTAL W	ATER IN	TO SYST	M (MIL	LION GA	LLONS)					
OF		TIONS /2							,							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,443	2,443	/5				-	-	-		-				-	
1981	_,	_,			-		-	-				-	-		-	
1982			_	_	-		-	_	-	-	-	-	-	-		
1983	3,373	3,373	_	_	-	-	-	_	336.0	307.0	332.0	169.0	103.0	73.0		
1984	3,313	3,313	194.0	231.0	283.0	260.0	312.0	330.0		-						
1985			174.0		200.0	200.0	312.0	330.0			_	_				
1986	3,930	3,930	160.0	72.0	109.0	202.0	260.0	385.0	418 0	394.0	323 A	3/2 0	256.0	212.0	3133.0	
1987	4,510	4,510	232.0	195.0	144.0	309.0	366.0	446.0	447.0			328.0		192.0	3620.0	
1988	4,912	4,912	130.0	231.0	301.0	260.0	412.0	403.0	414.0	411.0	401.0	406.0	262.0	295.0	3926.0	
		•	242.0	189.0		387.0						395.0		415.0		
1989	5,365	5,365	242.0	109.0	2/3.0	307.0	370.0	440.0				387.0			4403.0	
1990	5,544	5,544							410.0	472.0	339.0	367.0	300.0	309.0		
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	/3	/4
	4.09	10,000	-	-		-	-	-	-	-	-	-	-	-	•	-
1980		-								-		-			-	-
1980	4.12		-	-	-	-	-	-	-				-	-		
	4.12 4.14		-	-	-	-	-		-	-				-	-	-
1981		14,045	-	-	-	-	-	-	772	705	788	388	244	168	-	-
1981 1982	4.14	14,045	-		-	-	-	-		705	788	388	244		-	-
1981 1982 1983	4.14 4.16	14,045	-	-	-	-	-	-	772						-	
1981 1982 1983 1984	4.14 4.16 4.19	14,045	-	- - - - 155	- - - - 211	- - - - 405	- - - - 504	-	772 -	-	-	-	-		- - - - 516	0.57
1981 1982 1983 1984 1985	4.14 4.16 4.19 4.21				-		•	-	772 - -	-	-	-	-	168	- - - - 516 516	
1981 1982 1983 1984 1985 1986	4.14 4.16 4.19 4.21 4.23	16,643	- - - 310	- - - 155	- - - 211	405	- - 504	- - - 771	772 - - 810	764	647	663	513	168 - - 411		0.57
1981 1982 1983 1984 1985 1986 1987	4.14 4.16 4.19 4.21 4.23 4.26	16,643 19,205	- - 310 390	- - 155 363	- - 211 242	- - 405 536	- - 504 615	- - 771 774	772 - - 810 751	- - 764 711	- 647 717	- 663 551	513 217	168 - - 411 322	516	0.57
1981 1982 1983 1984 1985 1986 1987 1988	4.14 4.16 4.19 4.21 4.23 4.26 4.28	16,643 19,205 21,033	310 390 199	155 363 379	211 242 462	- - 405 536 412	504 615 632	- - 771 774 639	772 - 810 751 635	764 711 630	647 717 636	- 663 551 623	513 217 415	168 - - 411 322 452	516 511	0.57 0.57 0.57 0.57

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable

000 111217	LECUTION A			LIATED A	CENCY		CACITAG	MUNICI	DAI LIAT	ED DIST	o i c t	OBICIN	OE LIATE	D /in n	oncomt).	
COUNTY	VENTURA.	O IAT ET						WATER D			(101	OKIGIN	OF WATE	K (in p	ercent):	
	VENTURA,			TIPE OF	AGENCI		OBLIC	MAILK D	ISIRICI			CIPEA	CE WATE	D	NA	
	IC REGION			TOACT		CVCTE	M SERVE	e.					AND SP		NA.	
	SUBAREA					31310	H SERVE					MELLS	AND SP	KINGS	- MA	
DAU #			81		ENT	IRE CIT	Υ		• • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		50,000			ОТН	ER				X		PURCH	ASED		0	
1990		55,000										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	2,420		Meter	ed	92		Meter	ed	12		Heter	ed	36		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACT I VE	SERVICE				TOTAL W	ATER IN	ITO SYST	EN (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,076	2,076	/5	-				-	-	1329.0	-	1178.0		932.0	-	
1981	2,076	2,076		689.0	-	639.0	-	1205.0	-		-		-		-	
1982	-,		-	-	-	-	-	-	-	-	-	-	-	-	-	
1983	2,486	2,486	-		-	-	-	-	-	1543.0	-	1196.0	-	444.0	-	
1984	2,486	2,486	-	745.0	-	1122.0	-	1612.0	-	2001.0	-	1483.0	-	534.0		
1985	2,522	2,522	214.0	186.0	326.0	588.0	661.0	747.0	935.0	928.0	786.0	684.0	344.0	190.0	6589.0	
1986	2,705	2,705	201.0	148.0	137.0	236.0	617.0	692.0	785.0	810.0	583.0	635.0	515.0	462.0	5821.0	
1987	2,740	2,740	392.0	345.0	274.0	613.0	682.0	749.0	817.0	936.0	883.0	696.0	387.0	346.0	7120.0	
1988	2,672	2,672	182.0	349.0	389.0		679.0		869.0		887.0	761.0	502.0	473.0	7185.0	
1989	2,860	2,680	313.0	268.0	503.0	714.0			985.0	996.0	941.0	803.0	777.0	730.0	8553.0	
1990	2,427							459.0				765.0	612.0	615.0	6416.0	
	PERCONC	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAL	PITA WAT	FR LISE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION					r En Gra	****	LK OOL	(Shou))					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
	2/ 09									857		760		601		
1980 1981	24.08	50,000 49,705	-	495		429		808		037		700		001		
1981	23.80	47,703		470	•	429		000			_		_			
	23.66	E0 047	-		•					846		656		244		
1983		58,813						919		1,104	-	818		295		
1984	23.52	58,460	117	439 113	178	640 333	362	422	512	508	444	374	195	104	306	0.343
1985	23.37	58,947	117		70	125	302 317	367	403	416	309	326	273	237	254	0.284
1986	23.23	62,840	103			323	348	395	403	477	465	355	204	176	308	0.345
1987	23.09	63,263	200		140						482	400	273	249		0.360
1988	22.95	61,313	96		205	233	357	423	457	467 493		397	397	361	359	0.402
1989	22.80	65,220	155		249	365	353	414	487		481 495	449	371	361	320	0.40
1990	22.66	55,000	200	272	69	132	283	278	457	464	470	449	3/1	301	320	0.330
AVERAGE			145	243	152	322	337	503	456	626	446	504	285	292	311	0.349

^{1/} Number of services

3/ gpcd - gallons per capita daily

.....

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

COUNTY	VENTURA			WATER A	GENCY		ILLMORI	E, CITY	OF		(ORIGIN C	OF WATER	(in p	ercent):	
CITY	FILLMORE			TYPE OF	AGENCY.		UNICIPA	AL WATER	DEPART	TMENT						
												SURFAC	E WATER	·	0	
				OAST		SYSTE	SERVE	S:				WELLS	AND SPI	RINGS	100	
		#														
					ENTI	RE CIT										
			•					SUTSIDE.		x		SOURCE (DE WATER	(in n	ercent):	
ITY CEN	SUS POPUL	ATTON						ΓΥ						. с р		
												DUDCK	ASED		0	
		•			01110								SUPPL IEI		100	
1770		*********			SERVICE	CONNECT	TIONS	/1				000			100	
ESIDENT	TAL .			COMMERC		00		INDUSTRI	A1 -			OVERNME	FNTAL -			
	d	2,633			ed	141			d	12			ed	75		
	ate	•			Rate	0			ate	0			Rate	0		
rtat K	ate			reac				reat r	ate	·		reac		·		
YEAR	ACTIVE	SERVICE			,	OTAL 14	TER IN	TO SYSTE	M (MILI	TON GAL	LONS					
OF		TIONS /2			,	OIAL W	11-CR 18	31316	an (maki	UPIL	LONG					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
					1847					74.73						
1980	2,476	2,466	27.0	25.0	30.0	45.0	62.0	75.0	73.0	69.0	70.0	52.0	39.0	44.0	611.0	
1981	2,500	2,490	32.0	33.0	36.0	54.0	51.0	73.0	85.0	76.0	62.0	59.0	49.0	41.0	651.0	
1982	2,532	2,517	33.0	34.0	34.0	41.0	58.0	64.0	83.0	80.0	60.0	56.0	35.0	34.0	612.0	
1983	2,445	2,430	33.0	26.0	31.0	38.0	56.0	66.0	84.0	70.0	67.0	47.0	34.0	32.0	584.0	
1984	2,538	2,523	40.0	47.0	57.0	66.0	79.0	74.0	86.0	76.0	72.0	60.0	99.0	34.0	790.0	
1985	2,560	2,545	37.0	38.0	45.0	65.0	75.0	85.0	91.0	87.0	75.0	64.0	44.0	44.0	750.0	
1986	2,710	2,695	37.0	38.0	45.0	65.0	75.0	84.0	91.0	86.0	75.0	64.0	44.0	43.0	747.0	
1987	2,718	2,693	49.0	41.0	39.0	78.0	79.0	82.0	85.0	84.0	71.0	60.0	42.0	39.0	749.0	
1988	2,776	2,761	41.0	49.0	60.0	56.0	74.0	79.0	87.0	81.0	76.0	69.0	50.0	47.0	769.0	
1989	2,776	2,829	44.0	41.0	55.0	70.0	72.0	84.0	92.0	85.0	75.0	64.0	59.0	59.0	800.0	
1990	2,856	2,846	45.0	41.0	55.0	69.0	72.0	84.0	91.0	85.0	75.0	64.0	59.0	59.0	799.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USE	(apped)/3					ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.89	9,641	90	89	100	156	207	259	244	231	242	174	135	147	174	0.19
1981	3.93	9,814	105	120	118	183	168	248	279	250	211	194	166	135	182	0.2
1982	3.96	10,021	106	121	109	136	187	213	267	258	200	180	116	109	167	0.18
1983	3.99	9,755	109	95	103	130	185	226	278	231	229	155	116	106	164	0.1
1984	4.02	10,207	126	159	180	216	250	242	272	240	235	190	323	107	212	0.2
1985	4.05	10,377	115	131	140	209	233	273	283	270	241	199	141	137	198	0.2
1986	4.09	11,072	108	123	131	196	219	253	265	251	226	186	132	125	185	0.2
1987	4.12	11,151	142	131	113	233	229	245	246	243	212	174	126	113	184	0.20
1988	4.15	11,519	115	147	168	162	207	229	244	227	220	193	145	132	183	0.20
1989	4.18	11,893	119	123	149	196	195	235	250	231	210	174	165	160	184	0.20
1990	4.21	12,034	121	122	147	191	193	233	244	228	208	172	163	158	182	0.20
VERAGE			114	124	133	183	207	241	261	242	221	181	157	130	183	0.20

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ efpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	VENTURA			HATER A	GENCY		OXNARD,	CITY C	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY	OXNARD			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #	f		56007									SURFA	CE WATE	R	71	
HYDROLOG	GIC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	29	
PLANNING	SUBAREA	#	SANTA C	LARA												
DAU #			81		ENT	IRE CIT	γ			X						
					ENT	IRE CIT	Y PLUS	CUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		108,195			ОТН	ER						PURCH	ASED		97	
1990		142,216										SELF	SUPPLIE	D	3	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	25,731		Meter	ed	1,879		Meter	ed	144		Heter	ed	208		
Flat R	late	301		Flat	Rate	241		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	23,292	23,292	395.0	373.0	417.0	476.0	498.0	562.0	552.0	579.0	522.0	517.0	470.0	421.0	5782.0	
1981	24,439	24,439	430.0	380.0	430.0	502.0	566.0	611.0	626.0	654.0	591.0	533.0	456.0	420.0	6199.0	
1982	25,000	25,000	411.0	400.0	427.0	464.0	551.0	558.0	620.0	618.0	554.0	549.0	415.0	410.0	5977.0	
1983	25,000	25,000	415.0	383.0	410.0	447.0	507.0	565.0	603.0	576.0	598.0	524.0	438.0	424.0	5890.0	
1984	24,887	24,887	477.0	480.0	563.0	561.0	627.0	610.0	650.0	691.0	632.0	570.0	445.0	412.0	6718.0	
1985	25,464	25,464	451.0	422.0	491.0	549.0	605.0	615.0	629.0	667.0	620.0	574.0	458.0	459.0	6540.0	
1986	25,785	25,785	473.0	370.0	362.0	483.0	572.0	478.0	486.0	577.0	605.0	576.0	373.0	392.0	5747.0	
1987	26,536	26,536	492.0	454.0	508.0	539.0	624.0	630.0	657.0	701.0	672.0	587.0	465.0	459.0	6788.0	
1988	27,231	27,231	468.0	490.0	559.0	517.0	641.0	652.0	644.0	668.0	642.0	689.0	520.0	497.0	6987.0	
1989	28,307	28,307	506.0	444.0	544.0	594.0	625.0	669.0	730.0	726.0	676.0	645.0	599.0	602.0	7360.0	
1990	28,072	28,072	544.0	476.0	582.0	578.0	653.0	632.0	660.0	682.0	624.0	620.0	513.0	539.0	7103.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.65	108,195	118	119	124	147	148	173	165	173	161	154	145	126	146	0.164
1981		114,552	121	118	121	146	159	178	176	184	172	150	133	118	148	0.166
1982		118,234	112	121	116	131	150	157	169	169	156	150	117	112	138	0.155
1983		119,286	112	115	111	125	137	158	163	156	167	142	122	115	135	0.152
1984		119,795	128	138	152	156	169	170	175	186	176	153	124	111	154	0.172
1985		123,644	118	122	128	148	158	166	164	174	167	150	123	120	145	0.162
1986	4.90	126,288	121	105	92	127	146	126	124	147	160	147	98	100	125	0.140
1987		131,083	121	124	125	137	154	160	162	173	171	144	118	113	142	0.159
1988		135,663	111	125	133	127	152	160	153	159	158	164	128	118	141	0.158
1989		142,215	115	112	123	139	142	157	166	165	158	146	140	137	142	0.159
1990		142,216	123	120	132	135	148	148	150	155	146	141	120	122	137	0.153
1770	3.07	172,210	123	120	132	155	140	140	130	,,,,	140		120	144	131	0.133
AVERAGE			118	120	123	138	151	159	161	167	163	149	124	117	141	0.158

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

COUNTY	VENTURA			WATER A	GENCY		PORT H	JENEME,	CITY OF			ORIGIN	OF WATER	(in p	ercent):	
	PORT HUEN	EME						PAL WATE						р		
			56009		MOLINO							SLIREA	CE WATER	2	0	
	IC REGION			COAST		SYSTE	M SERVI	ES:					AND SPI		100	
	SUBAREA															
					ENT	IRE CIT	Υ			х						
								CUTSIDE				SOURCE	OF WATER	(in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE C	ITY								
1980		17,803			ОТН	ER						PURCH	ASED		100	
1990		20,319										SELF	SUPPLIE)	0	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	1,153		Meter	ed	120		Meter	ed	NA		Meter	ed	NA		
Flat R	ate	3,887		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,255	4,255	43.0	71.0	47.0	67.0	69.0	102.0	93.0	99.0	124.0	87.0	106.0	61.0	969.0	
1981	4,378	4,378	/5	-	-	-					-	-	-		-	
1982	4,397	4,397	72.0	68.0	77.0	87.0	92.0	95.0	131.0	71.0	144.0	73.0	86.0	91.0	1087.0	
1983	4,400	4,400	118.0	138.0	108.0	116.0	80.0	101.0	95.0	86.0	97.0	92.0	96.0		1225.0	
1984	4,462	4,462	79.0	91.0	118.0	103.0	104.0	126.0	125.0		116.0	109.0	86.0		1264.0	
1985	4,300	4,300	61.0	65.0	93.0	104.0	122.0		122.0	137.0	104.0	68.0	116.0		1182.0	
1986	4,550	4,550	66.0	125.0	95.0	112.0	100.0	91.0	100.0	118.0	66.0	80.0	61.0		1100.0	
1987	4,550	4,550	90.0	77.0	78.0	106.0	114.0		116.0	117.0	115.0	98.0	76.0		1184.0	
1988	4,660	4,660	68.0	93.0	91.0	109.0	136.0		131.0	123.0	111.0	107.0	89.0		1265.0	
1989	4,660	4,660	79.0	72.0	71.0	78.0	113.0	141.0	126.0	114.0	104.0	93.0	96.0		1163.0	
1990	5,840	5,840	50.0	72.0	87.0	81.0	95.0	98.0	99.0	77.0	99.0	93.0	92.0		1025.0	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAI	PITA WAT	ED IISE	(ancd)	3				ANNUALLY	
OF	CONNEC-	TION					ren un	TIN WAI	TH OOF	(Speci)	,				gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.18	17,803	78	138	85	125	125	191	169	179	232	158	198	111	149	0.16
1981	4.11	18,009				-							-		-	
1982	4.04	17,777	131	137	140	163	167	178	238	129	270	132	161	165	168	0.18
1983	3.97	17,479	218	282	199	221	148	193	175	159	185	170	183	181	192	0.21
1984	3.90	17,411	146	180	219	197	193	241	232	230	222	202	165	154	199	0.22
1985	3.83	16,476	119	141	182	210	239	227	239	268	210	133	235	153	197	0.22
1986	3.76	17,113	124	261	179	218	188	177	188	222	129	151	119	162	176	0.19
1987	3,69	16,793	173	164	150	210	219	232	223	225	228	188	151	154	193	0.21
1988	3.62	16,870	130	190	174	215	260	241	250	235	219	205	176	163	205	0.23
1989	3.55	16,542	154	155	138	157	220	284	246	222	210	181	193	148	193	0.21
1990	3.48	20,319	79	127	138	133	151	161	157	122	162	148	151	130	138	0.15
						1										

^{1/} Number of services

135 177 160 185 191 212 212 199 207 167 173 152 181 0.203

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} efpca - acre-feet per capita annually

	VENTURA				GENCY					KS		ORIGIN	OF WATE	R (in p	ercent):	
	SANTA PAL			TYPE OF	AGENCY	• • • • • • •	INVESTO	R OWNED	1							
SYSTEM #	f		56011									SURFA	CE WATE	R	. 7	
HYDROLOG	IC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	93	
PLANNING	SUBAREA	#	SANTA (CLARA												
DAU #			. 81		ENT	IRE CIT	γ		• • • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		22,400			OTH	ER						PURCH	ASED		. 0	
1990		25,062										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	db	5,865		Meter	ed	747		Meter	ed	NA		Meter	ed	122		
Flat F	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	NAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,858	5,558	76.0	70.0	85.0	123.0	121.0	161.0	186.0	174.0	140.0	142.0	128.0	108.0	1514.0	
1981	6.042		150.0	85.0	85.0	138.0				259.0		192.0	154.0		2172.0	
1982	6,041	5,741	90.0	84.0	87.0		175.0				194.0	197.0	100.0		1828.0	
1983	6.041	5.741	102.0	82.0	87.0	93.0			175.0	151.0	149.0	113.0	84.0		1398.0	
1984	6,212	5,912	98.0	130.0	159.0	164.0	197.0	189.0	207.0	203.0	175.0	158.0	105.0	84.0	1869.0	
1985	6,264	5,964	91.0	96.0	126.0	157.0	188.0	203.0		237.0	197.0	178.0	127.0	108.0	1949.0	
1986	6,300	6,000	108.0	96.0	116.0	143.0	180.0	169.0	184.0	178.0	149.0	142.0	126.0	114.0	1705.0	
1987	6,400	6,100	106.0	103.0		150.0		164.0	169.0	175.0	151.0	135.0	97.0		1607.0	
1988	6,513	6,213	92.0	111.0	127.0			162.0	169.0	169.0	153.0	142.0	115.0		1624.0	
1989	6,600	6,300	100.0	89.0			146.0					142.0			1643.0	
1990	6,734	6,434	105.0	93.0			142.0					146.0	125.0	116.0	1579.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.03	23,609	104	102	116	174	165	227	254	238	198	194	181	148	176	0.197
1981	4.02	24,269	199	125	113	190	268	380	376	344	328	255	212	144	245	0.177
1982	4.00	24,209	120	124	116	134	233	309	328	323	267	263	138	123	207	0.273
1983	3.99	24,102	137	122	116	129	161	199	234	202	206	151	116	131	159	0.178
1984	3.98	24,700	128	181	208	221	257	255	270	265	236	206	142	110	207	0.232
1985	3.96	24,700	118	138	164	211	244	273	313	308	265	231	171	140	215	0.241
1986	3.95	24,880	140	138	150	192	233	226	239	231	200	184	169	148	188	0.210
1987	3.94	25,189	136	146	134	199	205	217	216	224	200	173	128	118	175	0.196
1988	3.92	25,546	116	150	160	163	188	211	213	213	200	179	150	139	174	0.195
1989	3.92	25,798	125	123	143	187	183	199	213	203	195	178	177	166	174	0.195
1990	3.90	26,231	129	127	148	151	175	189	203	191	183	180	159	143	165	0.185
1770	3.70	ω,ω,	127	121	140	131	113	107	203	171		100	137	5	103	5. 105
AVERAGE			132	134	143	177	210	244	260	249	225	199	158	137	190	0.212

^{1/}Number of services estimated,commercial & industrial comb 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually
fire protection, and other agencies.

COUNTY.	VENTURA			WATER A	GENCY		SOUTHER	N CALIFO	ORNIA W	TER COM	PANY	ORIGIN C	OF WATER	(in pe	ercent):	
CITY	OJAI				AGENCY.											
SYSTEM #	f		56014									SURFAC	E WATER	2	25	
YDROLOG	IC REGION		SOUTH C	OAST		SYSTE	SERVES	S:				WELLS	AND SPI	RINGS	75	
LANNING	SUBAREA	#	SANTA C	LARA												
AU #			81		ENT	RE CIT	۲	• • • • • • •		X						
					ENT	IRE CIT	Y PLUS	OUTS IDE.			-	SOURCE (OF WATER	(in pe	ercent):	
	ISUS POPUL				POR1	TION OF	THE CIT	η								
1980		6,816			OTHE	R		• • • • • • •	• • • • • • •				ASED		25	
1990	• • • • • • • • • • • • • • • • • • • •	7,613										SELF S	SUPPLIE		75	
					SERVICE	CONNECT										
ESIDENT	IAL:			COMMERC			1	INDUSTRI				GOVERNME	ENTAL:			
	d				ed	NA			:d	NA			ed	NA		
Flat R	ate	. NA		Flat I	Rate	NA		Flat F	Rate	NA		Flat F	Rate	NA		
YEAR	ACTIVE	SERVICE			,	TOTAL U	ATED IN	TO SYSTE	M /MTLI	TON GAL	1.0057					
OF		TIONS /2				OIAL W	TIER IN		en (miri	OH UPIL)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,411	2,411	24.0	24.0	29.0	44.0	41.0	60.0	73.0	69.0	56.0	57.0	45.0	35.0	557.0	
1981	2,476	2,476	34.0	28.0	27.0	38.0	55.0	76.0	75.0	81.0	67.0	49.0	41.0	34.0	605.0	
1982	2,488	2,488	14.0	31.0	12.0	24.0	28.0	40.0	44.0	64.0	70.0	57.0	34.0	32.0	450.0	
1983	2,504	2,504	28.0	22.0	27.0	33.0	46.0	56.0	70.0	64.0	67.0	38.0	28.0	28.0	507.0	
1984	2,512	2,512	31.0	43.0	49.0	58.0	76.0	74.0	88.0	85.0	69.0	58.0	36.0	29.0	696.0	
1985	2,544	2,544	31.0	30.0	41.0	58.0	66.0	77.0	88.0	84.0	69.0	62.0	42.0	36.0	684.0	
1986	2,562	2,562	37.0	28.0	37.0	43.0	68.0	73.0	79.0	82.0	64.0	55.0	50.0	48.0	664.0	
1987	2,619	2,619	40.0	37.0	40.0	62.0	71.0	76.0	79.0	81.0	76.0	58.0	39.0	36.0	695.0	
1988	2,641	2,641	36.0	45.0	55.0	53.0	75.0	79.0	88.0	85.0	75.0	70.0	48.0	44.0	753.0	
1989	2,683	2,683	39.0	36.0	50.0	62.0	58.0	72.0	89.0	76.0	56.0	84.0	62.0	57.0	741.0	
1990	2,710	2,710	41.0	44.0	56.0	55.0	68.0	73.0	88.0	80.0	75.0	67.0	52.0	53.0	752.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USE	(apped)/3					UNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.83	6,816	114	121	137	215	194	293	345	327	274	270	220	166	224	0.25
1981	2.83	6,995	157	143	125	181	254	362	346	374	319	226	195	157	237	0.20
1982	2.82	7,025	64	158	55	114	129	190	202	294	332	262	161	147	176	0.19
1983	2.82	7,066	128	111	123	156	210	264	320	292	316	173	132	128	197	0.27
1984	2.82	7,084	141	209	223	273	346	348	401	387	325	264	169	132	269	0.30
1985	2.82	7,169	139	149	184	270	297	358	396	378	321	279	195	162	261	0.2
1986	2.82	7,215	165	139	165	199	304	337	353	367	296	246	231	215	252	0.2
1987	2.81	7,371	175	179	175	280	311	344	346	354	344	254	176	158	258	0.2
1988	2.81	7,429	156	209	239	238	326	354	382	369	337	304	215	191	278	0.3
1989	2.81	7,542	167	170	214	274	248	318	381	325	248	359	274	244	269	0.30
1990	2.81	7,613	174	206	237	241	288	320	373	339	328	284	228	225	271	0.30
VERAGE			144	163	171	222	264	317	349	346	313	266	200	175	245	0.27
				100		(market)		311	347	3.00	3.3		200			0.21

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	VENTURA							D OAKS,				ORIGIN	OF WATE	R (in p	ercent):	
	THOUSAND			TYPE OF	AGENCY	• • • • • • •	MUNICIF	AL WATE	R DEPAR	TMENT						
SYSTEM #	t		56020									SURFA	CE WATE	R	100	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	SANTA (CLARA												
DAU #			. 81		ENT	IRE CIT	Υ		• • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ		X						
1980		28,000			OTH	ER						PURCH	ASED		100	
1990		40,000										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	12,067		Meter	ed	814		Meter	ed	0		Heter	ed	1		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
		44 000	407.0	40/ 0	400.0	407.0	400.0			704.0	~~~~~	~~~~~	200.0	407.0	2/40 0	
1980	10,400	,		124.0												
1981	10,659	10,484	182.0		158.0			351.0						150.0		
1982	10,918	10,689	126.0		145.0	170.0	239.0			349.0		271.0	181.0	143.0	2624.0	
1983	11,143	10,913	164.0		115.0	164.0		260.0				194.0	149.0	130.0	2408.0	
1984	11,400	11,200	181.0		247.0	257.0		311.0		356.0	310.0	327.0	264.0	160.0	3273.0	
1985	11,600	11,400	163.0		146.0	144.0	265.0			368.0	306.0	268.0	200.0	178.0	2870.0	
1986	11,898	11,660	196.0		163.0	200.0		349.0		379.0			279.0	258.0	3235.0	
1987	12,421	12,233	229.0		226.0	331.0		358.0						177.0		
1988	12,617	12,367	173.0		263.0	255.0				387.0			217.0		3469.0	
1989	12,733	12,446	193.0		228.0			346.0					292.0		3646.0	
1990	12,882	12,578	223.0	179.0	256.0	251.0	325.0	354.0	388.0	379.0	352.0	326.0	270.0	253.0	3556.0	
												•				
MEAD	PERSONS	AVERAGE POPULA-					DED CAL	PITA WAT	CD LICE	(anod) (7				ANNUALLY	
YEAR		TION					PER LA	PIIA WAI	ER USE	(gpcu)/	3				gpcd	afpca
	CONNEC-		144	550	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
RECORD	TION	SERVED	JAN			APK	MAI	JUN	JUL	AUG	SEP		NOV	DEC		/*
1980	2.72	28,327	145	151	146	227	227	332	409	366	285	276	245	220	253	0.284
1981	2.77	29,519	199	188	173	229	287	396	394	378	327	234	217	164	266	0.298
1982	2.82	30,734	132	166	152	184	251	271	347	366	299	284	196	150	234	0.262
1983	2.86	31,876	166	129	116	171	239	272	326	291	283	196	156	132	207	0.232
1984	2.91	33,132	176		240	259	310	313	333	347	312	318	266	156	271	0.303
1985	2.95	34,243	154		138	140	250	292	355	347	298	252	195	168	230	0.257
1986	3.00	35,665	177		147	187	249	326	359	343	279	279	261	233	249	0.278
1987	3.04	37,800	195		193	292	287	316	320	335	310	231	172	151	250	0.280
1988	3.09	38,972	143		218	218	281	317	319	320	291	254	186	175	244	0.273
1989	3.13	39,912	156		184	246	272		327	315	299	273	244	241	250	0.280
1990	3.18	40,967	176		202	204	256		306	298	286	257	220	199	238	0.266
1770	3.10	40,701	170	1,20	LVL	204	2,0	200	500	2,0						

^{1/} Number of services

165 166 174 214 264 310 345 337 297 260 214 181 245 0.274

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

				IMPER :	CENER		DEVED: W					00101::	05 142	n 41-		
	LOS ANGEL				GENCY							UKIGIN	OF WATE	R (In p	ercent):	
	BEVERLY N				AGENCY	• • • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
								_						R	100	
							M SERVE	S:				WELLS	AND SP	RINGS	0	
		#		DLITAN L												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	. 89					•••••								
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL				POR	TION OF	THE CI	ΤΥ								
	• • • • • • • • • • • • • • • • • • • •				ОТН	ER	• • • • • • • •	•••••	• • • • • • •			PURCH	ASED	• • • • • • •	100	
1990		31,971										SELF	SUPPL IE	D	0	
					SERVI CE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	db	8,808		Meter	ed	1,168		Meter	ed	90		Meter	ed	167		
Flat R	late	. 0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EN (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	9,870	8,091	265.0	273.0	287.0	359.0	343.0	426.0	485.0							
1981	11,200	9,000	326.0	294.0	298.0	345.0	414.0	468.0	501.0	480.0	440.0	394.0	372.0	330.0	4662.0	
1982	10,750	8,699	281.0	306.0	284.0	336.0	388.0	386.0	459.0	467.0	395.0	402.0	337.0	302.0	4343.0	
1983	10,303	8,399	329.0	264.0	271.0	311.0	379.0	393.0	476.0	441.0	456.0	376.0	303.0	298.0	4297.0	
1984	9.854	8,098	344.0	356.0	404.0	401.0	465.0	457.0	505.0	493.0	480.0	445.0	348.0	306.0	5004.0	
1985	9,984	8.047	333.0	319.0	345.0	396.0	423.0	456.0		489.0					4789.0	
1986	10,510		351.0	283.0			445.0	443.0				391.0			4738.0	
1987	10,598	8.684			635.0	430.0		445.0						336.0		
1988	10,282	8.464	328.0					449.0							4788.0	
1989	10,211		336.0		364.0			440.0		483.0				386.0		
1990	10,233	•			372.0											
	DEDEONIC	AVERAGE	-	-												
YEAR	PERSONS	POPULA-					DED CAD	ITA WAT	ED LICE	(manel)	7				ANNUALLY	
OF	CONNEC-	TION					PER GAP	TIN WAT	ER USE	(Spea)/	,					-6
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	afpc
KECURD	1104	SERVED		FEB		APR	mar	JUN	JUL	AUG	SEP		MUV	DEC	/3	/4
1980	4.00	39,484	217	238	234	303	280	360	396	380	339	314	324	275	306	0.343
1981	3.98	44,576	236	236	216	258	300	350	363	347	329	285	278	239	287	0.321
1982	3.96	42,566	213	257	215	263	294	302	348	354	309	305	264	229	280	0.313
1983	3.94	40,586	261	232	215	255	301	323	378	351	375	299	249	237	290	0.325
1984	3.92	38,616	287	318	337	346	388	394	422	412	414	372	300	256	355	0.39
1985	3.90	38,922	276	293	286	339	351	391	415	405	370	347	292	278	337	0.378
1986	3.88	40,759	278	248	265	309	352	362	385	389	336	309	305	277	318	0.357
1987	3.86	40,884	274	280	501	351	342	363	358	373	353	312	254	265	336	0.37
1988	3.84	39,456	268	310	318	315	352	379	383	386	351	342	293	280	332	0.372
1989	3.82	38,975	278	264	301	367	363	376	414	400	387	349	350	319	348	0.37
1990																
1770	3.80	38,850	296	286	309	294	335	347	381	369	369	357	326	316	332	0.372
AVERAGE			262	269	291	309	333	359	386	379	358	326	294	270	320	0.359

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY.	LOS ANGEL	.ES		WATER A	GENCY		CALIFOR	NIA WAT	ER SERV	ICE COM	PANY	ORIGIN	OF WATE	R (in p	ercent):	
CITY	.HERMOSA 8	REDONDO	BEACH	TYPE OF	AGENCY		INVESTO	R OWNED)							
	#											SURFA	CE WATE	R	. 0	
HYDROLOG	GIC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	METROPO	DLITAN L	OS ANGE	LES										
DAU #			. 89		ENT	IRE CIT	Υ	• • • • • • •	• • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		75,172			OTH	ER				х		PURCH	ASED		100	
1990		88,420										SELF	SUPPLIE	D	. 0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	21,600		Meter	ed	2,250		Meter	ed	44		Meter	ed	364		
Flat R	Rate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER IN	to ever	SM /MTI	L TON CA	I I OWE)					
OF		TIONS /2				.JINE W	LIN 111	.5 5.51	wr trial	L.ON ON	LLUM3)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
														DEC	MINORE	
1980	22,497	22,497	319.0	295.0	288.0	332.0	378.0	421.0	450.0	448.0	437.0	394.0	373.0	357.0	4492.0	
1981	22,574	•		316.0			451.0			523.0					5072.0	
1982	22,621	•	342.0	321.0			435.0					439.0	359.0		4877.0	
1983	22,687	22,687			302.0						452.0			325.0	4398.0	
1984	23,852	23,852		373.0			494.0		540.0	517.0	487.0	445.0	377.0	350.0	5305.0	
1985	23,033	23.033			383.0									360.0	5204.0	
1986	23,197			322.0			488.0			508.0	439.0	412.0		380.0	5128.0	
1987	23,430	23,430	379.0	351.0			481.0			506.0		428.0		355.0	5230.0	
1988	23,763		360.0	374.0			471.0							367.0	5116.0	
1989	23,971	-			393.0						456.0		416.0		5193.0	
1990	24,219	-			401.0											
												•				
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.34	75,172	137	135	124	147	162	187	193	192	194	169	165	153	164	0.183
1981	3.37	76,128	149	148	150	176	191	222	229	222	201	180	171	148	183	0.204
1982	3.40	76,986	143	149	145	159	182	193	220	216	185	184	155	149	174	0.194
1983	3.43	77,913	140	143	125	131	137	172	182	190	193	161	147	135	155	0.173
1984	3.47	82,652	146	156	171	169	193	199	211	202	196	174	152	137	176	0.197
1985	3.50	80,527	147	150	153	179	186	204	218	213	190	181	157	144	177	0.198
1986	3.53	81,818	157	141	144	168	192	200	207	200	179	162	158	150	172	0.192
1987	3.56	83,364	147	150	153	180	186	189	188	196	184	166	186	137	172	0.193
1988	3.59	85,285	136	151	162	160	178	184	189	185	173	163	146	139	164	0.184
1989	3.62	86,773	136	134	146	171	174	181	188	188	175	161	160	152	164	0.184
1990	3.65	88,420	137	137	146	150	157	166	179	174	169	158	146	139	155	0.173
,	2.33	20,120			5	.20			,		,		1.10			3.113
AVERAGE			143	145	147	163	176	191	200	198	185	169	159	144	169	0.189

^{1/} Number of services
3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	LOS ANGEL	ES		WATER A	GENCY		CALIFOR	NIA WAT	ER SERV	ICE COM	PANY	ORIGIN	OF WATE	R (in p	ercent):	
CITY	PALOS VER	DES		TYPE OF	AGENCY		INVESTO	R OWNED								
SYSTEM #	ł		19104									SURFA	CE WATE	R	100	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
							Y									
					ENT	IRE CIT	Y PLUS	OUTSIDE	• • • • • • • • • • • • • • • • • • • •			SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	MOLTA			POR	TION OF	THE CI	τγ	• • • • • • •							
1980		59,228			OTH	ER	• • • • • • •	•••••	• • • • • •	Х		PURCH	ASED	• • • • • • •	100	
1990	•••••	64,831			SERVICE	CONNEC	TIONS	/1				SELF	SUPPL IE	D	0	
ESIDENT	TAL .			COMMERC				INDUSTR	TAL -			GOVERNM	FNTAL .			
	d	25 137			ed	487			ed	12			ed	205		
										. –						
Flat R	late	0		Flat	Rate	U		rtat	Rate	U		rtat	Rate	U		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2								****			*****		******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	22,042	22,042	/5			-			-	-	-	-	-	-		
1981	22,164	22,164	-	-	-	-	-	-	-	-	-	-	-	-	-	
1982	22,195	22,195	-	-	-	-	-	-	-	-	-	-	-	-	-	
1983	22,226	22,226		-	-		-		713.0	665.0	556.0	412.0	318.0	282.0		
1984	22,364	22,364	360.0	432.0	531.0	545.0	684.0	674.0	765.0	717.0	684.0	561.0	381.0	304.0	6638.0	
1985	22,485	22,485	340.0	345.0	420.0			696.0	-				-	-		
1986	22,714	22,714	427.0	280.0	371.0					762 N	573 N	503.0	402 N	405 N	6354.0	
1987	22,778	22,778	381.0	370.0		606.0				694.0					6354.0	
1988	22,873	22,873	380.0	424.0		493.0				682.0		600.0	447.0		6617.0	
								671.0							7019.0	
1989 1990	23,012 23,124	23,012 23,124	300.0	320.0	-	-	-	-	-	-	-	-	-	-	-	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.69	59,228	-		-			-				-		-	-	-
1981	2.70	59,814		-	-	-		-		-		-	-	-	-	
1982	2.71	60,157			_	-						_	-	_		
1983	2.72	60,500							380	355	306	220	175	150		
1984	2.73	61,136	190		280	297	361	367	404	378	373	296	208	160	297	0.33
1985	2.75	61,729	178	200	219	294	321	376	404	3/6	3/3	270	200	100	271	0.33
		•												200		
1986	2.76	62,622	220	160	191	266	335	350	378	393	305	259	262	209	278	0.31
1987	2.77	63,064	195	210	218	320	331	334	336	355	350	272	203	185	276	0.30
1988	2.78	63,594	193	230	282	258	335	332	347	346	346	304	234	202	285	0.31
1989	2.79	64,249	191	178	218	307	338	348	394	379	354	298	301	278	299	0.33
1990	2.80	64,831	•	•	-	-	-	-	-	-	-	•	-	•	•	-
AVERAGE			194	203	235	290	337	351	373	367	339	275	231	197	287	0.32

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants,
fire protection, and other agencies. 5/ Missing data unavailable

	LOS ANGEL	.ES			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	CERRITOS			TYPE OF	AGENCY	• • • • • • •	MONICIP	AL WATE	K DEPAR	THENT						
	f					ever		_						R	33	
	IC REGION						M SERVE	S:				WELLS	AND SP	RINGS	67	
	SUBAREA			JLIIAN L												
DAU #	•••••		. 89				γ									
									•••••	Х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI								_	
	•••••				ОТН	ER	• • • • • • • •	•••••	•••••					•••••		
1990	•••••	55,240			050110							SELF	SUPPLIE	D	67	
					SERVICE	CONNEC										
RESIDENT		4/ 047		COMMERC		042		INDUSTR				GOVERNM				
	d				ed				ed				ed			
Flat R	ate	44		reat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	14,500	14.500	170.0	150.0	171.0	230 n	265.0	350 0	421.0	305 D	350 D	310 n	241.0	188.0	3250 n	
1981	14,600	14,600	201.0	167.0	184.0				408.0			281.0	252.0		3457.0	
1982	14,640	•	174.0	194.0	196.0				378.0			311.0	220.0		3162.0	
1983	14,770	•	240.0										120.0		3549.0	
1984	14,700	14,700			302.0								248.0		3903.0	
1985	14,900	14,900	222.0	206.0					450.0				253.0		3753.0	
1986	14,910	14,910	249.0	187.0			385.0			374.0		240.0	290.0	282.0		
1987	14,930	14,930	256.0		241.0								246.0		3821.0	
1988	15,020				299.0									227.0		
1989	15,100				258.0											
1990	15,160	-			268.0											
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	TTA MAT	ER USE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					I ER W		-11 002	(3000)					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.64	52,756	104	98	105	151	162	221	257	242	221	195	152	115	169	0.190
1981	3.63	52,935	122	113	112	166	195	254	249	240	241	171	159	121	179	0.200
1982	3.61	52,895	106	131	120	159	196	197	231	210	186	190	139	99	164	0.183
1983	3.60	53,178	146	130	135	179	208	239	260	257	256	173	75	133	183	0.205
1984	3.59	52,740	156	184	185	200	249	240	249	228	248	206	157	126	203	0.227
1985	3.58	53,269	134	138	157	195	210	231	273	256	225	197	158	137	193	0.216
1986	3.56	53,116	151	126	134	183	234	248	247	227	200	146	182	171	188	0.210
1987	3.55	52,999	156	147	147	218	223	243	248	248	247	188	155	147	198	0.221
1988	3.54	53,128	146	150	182	175	213	225	233	216	199	175	155	138	185	0.207
1989	3.52	53,220	140	136	156	193	202	213	225	212	213	183	180	160	185	0.207
1990	3.51	53,240	158	150	162	172	194	207	225	210	199	189	162	155	182	0.204
AVERAGE			138	137	145	181	208	229	245	231	221	183	152	137	184	0.206

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	.ES			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
CITY	COMPTON			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	f		19026									SURFA	CE WATE	R	47	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	53	
LANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
AU #		•••••	89				Υ						or 11125			
ITY CEN	ISUS POPUL	ATION					Y PLUS			X		SOURCE	OF WATE	R (In p	ercent):	
					ОТН	ER						PURCH	ASED		47	
		-												D	53	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	db	13,666		Meter	ed	1,062		Meter	ed	180		Meter	ed	197		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	JAN		MAD	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	050	A11111111	
RECORD	SYSTEM		JAN	FEB	MAR	APK	MAY	JUN	JUL	AUG	3EP		NOV	DEC	ANNUAL	
1980	10,000	10,000	/5	-	-	-	-	-	-		-	-	-	-	-	
1981			197.0	179.0	193.0	221.0	265.0	293.0	315.0	310.0	272.0	242.0	211.0	204.0	-	
1982			198.0	188.0	199.0	201.0	238.0	255.0	300.0	298.0	257.0	252.0	212.0	213.0	-	
1983			221.0	176.0	194.0	198.0	240.0	269.0	323.0	312.0	272.0	254.0	212.0	217.0	-	
1984			219.0	222.0	268.0	250.0	300.0	320.0	337.0	318.0	300.0	274.0	228.0	221.0	•	
1985	14,500	14,500	242.0	221.0	247.0	265.0	295.0	318.0	358.0	339.0	262.0	267.0	243.0	237.0	3294.0	
1986	14,500	14,500	249.0	208.0	228.0	263.0	313.0	312.0	330.0	345.0	295.0	272.0	253.0	256.0	3324.0	
1987	14,500	14,500	249.0	216.0	257.0	287.0	307.0	303.0	322.0	327.0	284.0	289.0	247.0	237.0	3325.0	
1988	14,500	14,500	243.0	241.0	276.0	266.0	299.0	320.0	340.0	331.0	310.0	297.0	257.0	247.0	3427.0	
1989	14,905	14,905	256.0	232.0	275.0	303.0	314.0	317.0	368.0	359.0	332.0	296.0	283.0	282.0	3617.0	
1990	15,000	15,000	262.0	239.0	284.0	279.0	301.0	307.0	339.0	335.0	314.0	302.0	289.0	283.0	3534.0	
	DEDSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA HAT	FR USF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION							-11 -0	(Speay)	_				good	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	8.13	81,286														
1981	7.92	01,200		_		_	_	_	_	-	_	-	-	-	-	_
1982	7.71		Ţ.												_	_
1983	7.50			_		_	-	-							-	-
1984	7.29			_	_	_	_	_	_	-			-	-		-
1985		102,652	76	77	78	86	93	103	113	107	85	84	79	74	88	0.09
1986	6.87	99,609	81	75	74	88	101	103	107	112	99	88	85	83	91	0.10
1987	6.66	96,567	83	80	86	99	103	104	107	109	98	97	85	79	91	0.10
1988	6.45	93,524	84	89	95	95	103	114	117	114	110	102	92	85	100	0.10
1989	6.24	93,009	89	89	95	109	103	114	128	114	119	103	101	98	107	0.11
1990	6.03	90,454	93	94	101	103	107	113	128	119	116	108	101	101	107	0.11
		,454	,,		101	103	107		12.1	117	110	100	.00	101	107	0.12
VERAGE			84	84	88	97	103	109	115	114	105	97	91	87	98	0.11

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually

fire protection, and other agencies.

^{5/} Missing data unavailable

	LOS ANGEL				AGENCY					DRATION		ORIGIN	OF WATE	R (in	percent):	
	CARSON, E			TYPE O	F AGENCY	·	INVEST	OR OWNER)							
	¥											SURF	ACE WATE	R	. 73	
HYDROLOG	GIC REGION	l	SOUTH (COAST		SYSTE	M SERVE	ES:				WELLS	AND SE	PRINGS.	. 27	
PLANNING	SUBAREA	#	METROPO	DLITAN	LOS ANGE	LES										
DAU #			89		ENT	TIRE CIT	η		• • • • • • •							
					ENT	IRE CIT	Y PLUS	CUTSIDI	E			SOURCE	OF WATE	R (in	percent):	
CITY CEN	ISUS POPUL	ATION			POF	RTION OF	THE C	177	• • • • • •							
1980		100,000			OTI	ER			• • • • • •	. х		PURC	IASED		. 73	
1990		101,000										SELF	SUPPLIE	D	. 27	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMER	CIAL:			INDUST	RIAL:			GOVERNA	MENTAL:			
Metere	ed	27,546		Mete	red	2,716		Mete	red	. 130		Meter	red	. 281		
Flat F	ate	0		Flat	Rate	. 0		Flat	Rate	. 0		Flet	Rate	. 0		
VEAR	ACTIVE	SERVICE				TOTAL	MTED TO	UTO EVE	TCW /V**	LION	II I ONES					
YEAR		TIONS /2				TOTAL	evick II	110 212	LEM (MII	LION G	TLLUNS)					
-			JAN	FEB	MAR	APR	MAM	JUN	JUL	4110	. cen		1101	050	*******	
RECORD	SYSTEM	CITY			MAK			JUN		AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	30,000	30,000	/5	-	-	-	-	-	-	-		-	-			
1981	30,500	30,500	-	-	-	-	-	-	-	-	-	_	-	-		
1982	30,123	30,123	_	-	-	-	-	_	1144.0	1160.0	1011.0	1035.0	852.0	839.0		
1983	30,175	30,175	898.0	830.0	878.0	887.0	1018.0								11651.0	
1984	30,220	30,220	823.0												12504.0	
1985	30,512	30,512	883.0	793.0		1031.0			-	-	-	-	-	-		
1986	29,776	29,776	903.0						1151.0	1152.0	1055.0	980.0	983.0	897.0	11869.0	
1987	29.859	29,859	897.0												12133.0	
1988	30,188	30,188	983.0												13627.0	
1989	30,979	30,979													13415.0	
1990	31,611														12667.0	

YEAR	PERSONS	AVERAGE POPULA-					DED CAS	DITA HA	TER USE	(mod)	a				ANNUALLY	
OF	CONNEC-	TION					PER CA	PIIA WA	IER USE	(gpcu)	/3				good	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
KECOKD	TION	SERVED	JAN	LED	HAK	AFK	na i	JUN	JUL	AU.	JCF		NOV	DEC	,,,	/-
1980	3.33	100,000								_	_				-	-
1981	3.32	101,245			_						_	_	_			-
1982	3.31	99,577			_				371	376	338	335	285	272	-	-
1983	3.29	99,332	292	298	285	298	331	376	392	370	367	315	280	252		0.360
1984	3.28	99,062	268	298		334	372		419	394	378	367	310	273		0.387
1985	3.26	99,598	286	284	294	345	359	386		-	310	301	-	-	-	-
1986	3.25	96.784	301	285	290	324	361	373	384	384	363	327	339	299	336	0.376
1987	3.24	96,641	299	307	308	367	390	384	366	391	370	335	304	303		0.385
1988	3.22	97,288	326	348		382	385	405	420	433	425	389	342	327	384	0.430
1989	3.21	99,409	299	304	326	372				427		375	366	354		0.414
1990		101,000	311	315	303	324	338	382		387		361	325	309	344	0.385
		,	298	305	319	343	364	387		395	377	351	319	298	349	0.391
AVERAGE			298	305	319	345	304	38/	34/	375	3//	201	319	276	349	0.391

^{1/} Number of services

.....

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Includes part of Torrance

COUNTY.	LOS ANGEL	.ES		HATER A	GENCY		DOWNEY,	CITY O	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY	. DOWNEY			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM A	ŧ		19034									SURFA	CE WATE	R	14	
HYDROLOG	GIC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	86	
PLANNING	SUBAREA	#	METROPO	DLITAN L	OS ANGE	LES										
DAU #			89		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		82,602			ОТН	ER						PURCH	ASED		14	
1990		91,444										SELF	SUPPLIE	D	86	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	19,550		Meter	ed	2,300		Meter	ed	1,199		Meter	ed	NA		
Flat R	Rate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	144		MAG	APR	MAY			A1 10	000	007	A400 4	DEC	******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APK	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	23,000	23,000	332.0	288.0	340.0	427.0	431.0	597.0	647.0	535.0	576.0	379.0	428.0	399.0	5379.0	
1981	23,000		361.0	305.0				594.0							5585.0	
1982	23,000	-						510.0							5351.0	
1983	23,000	•		282.0		348.0		509.0							4961.0	
1984	23,000	23,000	395.0	363.0		444.0	605.0	600.0	665.0	601.0	592.0		372.0		5967.0	
1985	23,000	23,000			397.0			653.0				480.0				
1986	23,000	23,000	386.0	283.0				659.0		640.0			422.0		5733.0	
1987	23,000			340.0				568.0				363.0				
1988	23,000	23,000						708.0				483.0				
1989	23,000	•						567.0				534.0				
1990	23,000	•						520.0								
	DEDECNE	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	FR LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION							LK OOL	(Spoot)	_				gpcd	afpci
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000	7.50	07.700	470	490	477	470	445	244				4/2		451	470	
1980	3.59	82,602	130	120	133	172	168	241	253	209	232	148	173	156	178	0.200
1981	3.63	83,486	139	130	127	166	199	237	252	252	214	174	162	142	183	0.205
1982	3.67	84,370	124	147	127	158	192	201	255	222	203	169	147	138	174	0.195
1983	3.71	85,255	123	118	110	136	167	199	231	232	191	156	126	120	159	0.179
1984	3.75	86,139	148	145	183	172	227	232	249	225	229	186	144	129	190	0.213
1985	3.78	87,023	137	137	147	188	186	250	245	224	212	178	152	139	183	0.205
1986	3.82	87,907	142	115	131	195	196	250	241	235	170	168	160	137	179	0.200
1987	3.86	88,791	129	137	148	220	200	213	241	218	255	132	138	131	180	0.202
1988	3.90	89,676	116	146	238	114	188	263	190	199	216	174	143	128	177	0.198
1989	3.94	90,560	143			191	186	209	226	209	185	190	164	171	179	0.201
1990	3.98	91,444	122	136	147	160	168	190	220	203	200	167	176	141	169	0.190
AVERAGE			132	133	149	170	189	226	237	221	210	167	153	139	177	0.199

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	LOS ANGEL	.ES		WATER A	GENCY		EL SEGL	NDO, CI	TY OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	EL SEGUND	0		TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	THENT						
SYSTEM #	f		19040									SURFA	CE WATE	R	100	
HYDROLOG	IC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			89		ENT	IRE CIT	Υ			X						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		13,752			OTH	ER						PURCH	ASED		100	
1990		15,223										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:	/6		GOVERNIN	ENTAL:			
Metere	db	3,538		Meter	ed	252		Meter	ed	476		Meter	ed	107		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,250	4,250	/5	-	-	-	-	-	570.0	568.0	565.0	560.0	504.0	518.0	-	
1981	4,292				455.0											
1982	4,335	4,335	461.0	457.0	488.0	481.0	510.0	500.0	583.0	524.0	500.0	520.0	428.0	407.0	5859.0	
1983	4,337	4,337	396.0	361.0	444.0	462.0	537.0	536.0	603.0	596.0	595.0	593.0	504.0	487.0	6114.0	
1984	4,345	4,345	513.0	512.0	568.0	553.0	600.0	579.0	621.0	653.0	578.0	607.0	516.0	462.0	6762.0	
1985	4,352	4,352	521.0	508.0	531.0	497.0	563.0	584.0	610.0	614.0	508.0	539.0	508.0	513.0	6496.0	
1986	4,322	4,322	503.0	421.0	509.0	516.0	569.0	534.0	606.0	585.0	539.0	552.0	503.0	494.0	6331.0	
1987	4,333	4,333	484.0	441.0	503.0	558.0	569.0	554.0	567.0	564.0	541.0	588.0	523.0	532.0	6424.0	
1988	4,337	4,337	511.0	505.0	577.0	603.0	619.0	612.0	646.0	586.0	553.0	567.0	548.0	542.0	6869.0	
1989	4,324				565.0											
1990	4,367	4,367	515.0	468.0	564.0	528.0	558.0	564.0	592.0	604.0	539.0	582.0	558.0	530.0	6602.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TAW ATI	ER USE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpci
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.24	13,752						-	1,337	1,332	1,369	1,314	1,222	1,215	-	-
1981	3.26	13,995	1,056	1,072	1,049	1,191	1,279	1,298	1,415	1,392	1,355	1,176	1,215	1,093	1,216	1.362
1982	3.29	14,244	1,044	1,146	1,105	1,126	1,155	1,170	1,320	1,187	1,170	1,178	1,002	922	1,127	1.262
1983	3.31	14,359	890	898	997	1,072	1,206	1,244	1,355	1,339	1,381	1,332	1,170	1,094	1,167	1.307
1984	3.34	14,494	1,142	1,218	1,264	1,272	1,335	1,332	1,382	1,453	1,329	1,351	1,187	1,028	1,278	1.432
1985	3.36	14,626	1,149	1,240	1,171	1,133	1,242	1,331	1,345	1,354	1,158	1,189	1,158	1,131	1,217	1.363
1986	3.39	14,634	1,109	1,027	1,122	1,175	1,254	1,216	1,336	1,290	1,228	1,217	1,146	1,089	1,185	1.328
1987	3.41	14,779	1,056	1,066	1,098	1,259	1,242	1,249	1,238	1,231	1,220	1,283	1,180	1,161	1,191	1.334
1988	3.44	14,901	1,106	1,169	1,249	1,349	1,340	1,369	1,398	1,269	1,237	1,227	1,226	1,173	1,263	1.414
1989	3.46	-		-	1,218				-	-		-			1,250	1.400
1990	3.49	-			1,195										1,188	1.331
AVERAGE			1.083	1.107	1.147	1.196	1.250	1.277	1.345	1.314	1.269	1.250	1.172	1.107	1,208	1.353
HAPPAGE			1,000	1, 101	1,147	1,170	1,250	1,211	.,545	1,514	1,207	1,250	1,112	., 107	1,200	

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

 ^{3/} gpcd - gallons per capita daily
 4/ afpca - acre-feet per capita annually
 6/Agency provides water toChevron Oil Refinery and other large industries

	LOS ANGEL						HAWTHOR	•				ORIGIN	OF WATE	R (in p	ercent):	
	HAWTHORNE			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #		• • • • • • • • •	19047									SURFA	CE WATE	R	73	
							M SERVE	S:				WELLS	AND SP	RINGS	27	
LANNING	SUBAREA	#	METROPO	LITAN L												
AU #		• • • • • • • • • • • • • • • • • • • •	89					• • • • • • • • • • • • • • • • • • • •								
								OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ	• • • • • •							
1980		26,447			OTH	ER	• • • • • • •	• • • • • • •	• • • • • • •				ASED		73	
1990		38,000										SELF	SUPPLIE	D	27	
					SERVICE	CONNEC										
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	•			ed	658			ed	187			ed	50		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	FM (MTL)	LTON GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
						•••••										
1980	6,047	6,047	/5	-		•	•	-	164.0	161.0			134.0		-	
1981	6,047	6,047	126.0	115.0	128.0	130.0	151.0	165.0	171.0	170.0	157.0		139.0		1729.0	
1982	5,991	5,991	131.0	123.0	134.0	127.0	144.0	140.0	176.0	175.0		159.0			1734.0	
1983	5,996	5,996	136.0	123.0	135.0	130.0	149.0	156.0	177.0	176.0	162.0	148.0	134.0	133.0	1759.0	
1984	5,935	5,935	133.0	142.0	155.0	145.0	171.0	170.0	186.0	174.0	171.0	169.0	144.0	134.0	1894.0	
1985	6,023	6,023	137.0	138.0			167.0	175.0	185.0	182.0	170.0	155.0	138.0	144.0	1892.0	
1986	6,036	6,036	151.0	132.0	154.0	159.0	170.0	172.0	187.0	184.0	169.0	162.0	151.0	147.0	1938.0	
1987	6,036	6,036	127.0	100.0	128.0	136.0	130.0	138.0	140.0	105.0	95.0	84.0	74.0	78.0	1335.0	
1988	6,022	6,022	113.0	110.0	133.0	131.0	129.0	143.0	151.0	156.0	139.0	125.0	101.0	95.0	1526.0	
1989	6,036	6,036	122.0	110.0				157.0	196.0	196.0		177.0			1857.0	
1990	6,056	6,056	142.0	130.0	153.0	144.0	151.0	151.0	167.0	161.0	149.0	153.0	141.0	142.0	1784.0	
YEAR	PERSONS PER	AVERAGE POPULA-					PER CAP	ITA WAT	FR USF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					r cit cou		CK OOL	(Special)	•				good	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	4.37	26,447							200	196	183	176	169	155		
1981	4.56	27,597	147	149	150	157	177	199	200	199	190	172	168	152	172	0.19
1982	4.75	28,480	148	154	152	149	163	164	199	198	184	180	159	150	167	0.18
1983	4.94	29,644	148	148	147	146	162	175	193	192	182	161	151	145	163	0.18
1984	5.13	30,471	141	161	164	159	181	186	197	184	187	179	158	142	170	0.19
1985	5.32	32,067	138	154	150	158	168	182	186	183	177	156	143	145	162	0.18
1986	5.51	33,284	146	142	149	159	165	172	181	178	169	157	151	142	160	0.17
1987	5.70	34,432	119	104	120	132	122	134	131	98	92	79	72	73	106	0.11
1988	5.89	35,497	103	107	121	123	117	134	137	142	131	114	95	86	118	0.13
1,700	6.08	36,727	107	107	111	119	116	142	172	172	155	155	153	149	139	0.1
1080		20,161	107	107	111	113			–						137	
1989	6.27	38 000	121	122	130	124	128	132	142	137	131	130	124	121	120	0.14
1989 1990	6.27	38,000	121	122	130	126	128	132	142	137	131	130	124	121	129	0.14

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies:

^{5/} Missing data unavailable

COUNTY	LOS ANGEL	ES		WATER A	GENCY		INGLEWO	OD, CIT	Y OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	INGLEWOOD	+		TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	f		19051									SURFA	CE WATE	R	0	
HYDROLOG	CIC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			89		ENT	IRE CIT	γ			х						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		94,245			ОТН	ER						PURCH	ASED		100	
1990		109,602										SELF	SUPPL IE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	12.671		Heter	ed	1,426		Heter	ed	68		Heter	ed	161		
	ate	•			Rate	•			Rate	0			Rate			
										·				•		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	14,589	14,589	259.0	234.0	305.0	364.0	297.0	340.0	378.0	382.0	306.0	314.0	304.0	251.0	3734.0	
1981	14,589	14,589						416.0					315.0		4261.0	
1982	14,290	14,290						367.0							4000.0	
1983	14,300	14,300						458.0							4114.0	
1984	14,235	14,235	330.0					416.0							4453.0	
1985	14,232	14,232						415.0					328.0		4718.0	
1986	14,312							391.0								
1987	15,976	15,976													4729.0	
1988	14,517	14,517														
1989	14,346	14,346														
1990	14,560	14,560														
	DEDOGUO	4150405														
YEAR	PERSONS	AVERAGE POPULA-					PER CAP	PITA WAT	FR USF	(appd)/	3				ANNUALLY	
OF	CONNEC-	TION								101	_				good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	6.46	94,245	89	86	104	129	102	120	129	131	108	107	108	86	109	0.122
1981	6.57	95,803	96	95	99	113	130	145	161	173	125	122	110	93	122	0.13
1982	6.67	95,365	99	99	97	102	121	128	163	121	125	119	103	99	115	0.129
1983	6.78	96,958	109	99	98	109	111	157	144	131	137	103	106	90	116	0.130
1984	6.89	98,037	109	134	100	138	115	141	152	140	134	134	103	89	124	0.139
1985	6.99	99,536	99	103	103	119	126	139	150	138	132	239	110	98	130	0.14
1986		101,623	99	93	99	108	133	128	116	145	116	109	119	98	114	0.127
1987	7.21	115,144	90	102	145	155	119	117	96	120	117	100	97	92	113	0.12
1988	7.31	106,179	99	103	105	106	120	127	129	126	115	111	101	111	113	0.127
1989	7.42	106,460	83	97	101	118	119	133	139	131	112	113	112	108	114	0.128
1990		109,602	96	95	73	102	112	117	130	121	118	110	103	99	106	0.119
AVERAGE			97	101	102	118	119	132	137	134	122	124	106	97	116	0.130
TACKAGE			7/	101	102	110	119	132	13/	134	166	124	100	7/	110	0.13

^{1/} Number of services

fire protection, and other agencies.

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually

COLINTY	LOS ANGEL	FS		WATER A	GENCY		I AKEUNO	D CLTY	OF			OPIGIN	OF WATE	P (in n	ercent):	
	LAKEWOOD				AGENCY					TMENT		OKIGIN .	OI 1811	K (III p	ci cait).	
				1112 01	MOLNET	•••••	rion i ci i		K DEFAK	Trans		SIDEA	CE WATE	D	0	
				COAST		SYSTE	M SERVE	S:					AND SP			
		#			OS ANCE		n ockve					MCLLO	AND G		100	
		*********		LI IAM L			٧			х						
DAO #		•••••	0,					OUTSIDE		^		en ibre	OE LIATE	e (in n	ercent):	
CITY CEN	SUS POPUL	ATTON						TY				SOUNCE	OF MAIL	K (III p	er ceric):	
												DUDCU	ASED		100	
					UIN	LA							SUPPLIE			
1990		13,331			SERVICE	CONNEC	TIONS	/1				JELF	SOFFLIE		U	
RESIDENT	TAL .			COMMERC		COMMEC		/ I Industr	TAL .			GOVERNM	ENTA:			
	d	10 245			ed	851			ed	NA			ed	174		
	ate				Rate				Rate				Rate			
rtat K	a.c	U		rtat	Kate	U		rtat	Kate	U		rtat	Kate	U		
YEAR	ACTIVE	SERVICE				TOTAL U	ATED TH	TO SYST	EM /MTI) TON CA	LLOWS					
DF.		TIONS /2				IOIAL W	NIER IN	10 3131	CH (HIL	CION ON	LLUM3)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
KECORD	SISIEM	6111	JAN	FEB	PARK	APK	PAI	JUN	JUL	AUG	əcr	001	MOV	DEC	AMMUAL	
1980	19,368	19.368	178 0	160.0	183.0	232 n	260.0	310 n	353 D	332 n	277 0	250.0	220 n	180 n	2962.0	
1981	19,438				187.0										3060.0	
1982	19,438	•			179.0										2887.0	
1983	19,743				166.0								185.0		2796.0	
1984	20,081	20.081	196.0		262.0										3329.0	
1985	20,081	20,081	184.0	175.0				348.0			289.0	266.0			3181.0	
1986	20,081	20,081	216.0		207.0										3203.0	
1987	21,190	21,190	207.0	193.0				331.0							3201.0	
1988	20,000	20,000	199.0		259.0										2935.0	
1989					217.0										3307.0	
1990	20,300	20,350			241.0											
	20,330	20,330	211.0	107.0	241.0	23.0	274.0	200.0		310.0	273.0	270.0	233.0	220.0	3110.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpce
RECORD	TION	SERVED	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.85	74,654	77	74	79	104	112	142	153	143	124	108	102	82	109	0.122
1981	3.83	74,457	78	83	81	104	125	156	157	153	133	101	97	81	113	0.126
1982	3.81	73,991	78	84	78	95	113	127	156	150	119	116	86	78	107	0.120
1983	3.78	74,678	82	75	72	86	111	126	149	140	129	98	83	78	103	0.115
1984	3.76	75,475	84	97	112	120	147	148	163	148	144	116	88	79	121	0.135
1985	3.73	74,993	79	83	91	115	129	155	162	154	128	114	93	89	116	0.130
1986	3.71	74,920	93	82	89	113	140	150	154	159	129	105	98	91	117	0.131
1987	3.69	78,118	85	88	91	126	133	141	141	143	133	106	86	72	112	0.126
1988	3.66	73,252	88	97	114	95	117	127	138	133	110	99	94	101	110	0.123
1989	3.64	73,863	83	86	95	131	140	150	161	153	136	115	113	107	123	0.137
1990	3.61	73,557	93	91	106	106	120	130	147	139	133	118	106	99	116	0.130
AVERAGE			84	86	92	108	126	141	153	147	129	109	95	87	113	0.127

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	ES			AGENCY							ORIGIN	OF WATE	R (in p	percent):	
CITY	LONG BEAC	H		TYPE O	F AGENCY		MUNICIE	PAL WATE	R DEPAR	RTMENT						
SYSTEM #	ł	•••••	. 19065									SURFA	CE WATE	R	. 65	
	IC REGION						SERVE	S:				WELLS	AND SF	RINGS.	. 35	
PLANNING	SUBAREA	#	METROPO	DLITAN 1	LOS ANGE	LES										
DAU #			. 89		ENT	IRE CIT	γ			•						
					ENT	IRE CIT	Y PLUS	OUTSIDE		. х		SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE C	TY								
1980		361,334			OTH	ER						PURCH	IASED		. 65	
1990		429,433										SELF	SUPPL IE	D	. 35	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMER	CIAL:			INDUSTR	RIAL:			GOVERNA	ENTAL:			
Metere	d	87,923		Meter	red	. NA		Meter	ed	. NA		Meter	ed	. NA		
Flat R	ate	0		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	TO SYS	TEM (MI	LION G	ALLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	85,330	85.224	1423.0	1323.0	1460.0	1681.0	1814.0	2034.0	2271.0	2218.0	1997.0	1887.0	1775.0	1579.0	21462.0	
1981	84,844														23172.0	
1982	85,097														22714.0	
1983	85,113	•													22383.0	
1984	86,815														25069.0	
1985	87,100														24643.0	
1986	86,901														24228.0	
1987	87,272														24833.0	
1988	87,642														24436.0	
1989	87,688	•													24935.0	
1990	87,923														24448.0	
	01,723		1017.0	1000.0	1744.0	10/3.0	2111.0						172110	100710	2771010	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	TER USE	(gpcd)	/3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.24	361,783	127	126	130	155	162	187	202	198	184	168	164		163	0.182
1981	4.30	365,223	135	139	140	163	175	212	220	220	202	165	169	145	174	0.195
1982	4.37	371,829	142	144	138	155	173	186	202	210	183	180	151	143	167	0.187
1983	4.43	377,416	145	134	134	143	168	181	204	198	194	165	144	139	162	0.182
1984	4.50	390,591	145	156	169	169	194	192	212	204	197	182	147	135	176	0.197
1985	4.56	397,520	134	140	144	169	179	193	220	201	191	173	156	137	170	0.190
1986	4.63	402,245	144	139	142	160	178	191	194	193	182	162	154	142	165	0.185
1987	4.69	409,620	137	144	152	175	176	191	190	198	186	163	144	137	166	0.186
1988	4.76	417,038	128	147	160	154	171	182	180	188	174	164	138	134	161	0.180
1989	4.82	422,942	133	132	140	159	173	174	191	189	179	162	157	147	162	0.181
1990	4.89	429,775	136	133	146	145	158	171	178	176	173	161	149	141	156	0.175
AVERAGE			137	139	145	159	173	187	199	198	186	168	152	140	166	0.185
TOTOL			.51	137	143	137	11.3			.,,						

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

CITY	LOS ANGEL			TYPE OF							, OMLK	OK I GIM	. m. IC	, (iii þ	ercent):	
	LOS ANGEL			TIPE OF	AGENCY		MUNICIP	AL WATE	K DEPAK	IPENI		O D E 4	or 140			
		• • • • • • • • • • • • • • • • • • • •						_					CE WATE		89	
							M SERVE	5:				MELLS	AND SP	RINGS	11	
		#		DLITAR L												
DAU #	••••••	•••••	89			IRE CIT										
						IRE CIT						SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL					TION OF									_	
	•••••				DTH	ER	• • • • • • •	•••••	• • • • • • •				ASED		73	
1990	•••••	3485398										SELF	SUPPLIE	D	27	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d				ed				ed				ed			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
VP10	407115	of but on				TAT:	ATER 1	TO 640-	FM 4444	1.1001.01	11000					
YEAR	ACTIVE					TOTAL W	MIER IN	IU SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	***							***						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
		614.410		11077	14489	16015	16639	17541	213/2	20530	17884	17654	15848	16616	197494	
1980 1981		623,839				15233	18099			20530	20062	16130		15599	205466	
1981				13468	12473	14664	17597		20413	21344	18945	16647	16157	15294	198415	
1983	631,969		13490 13823	13712	15415	15125	17291	18791		20845	19140	17635	16944	15632	205372	
							21319	20674			21356	19558				
1984		634,813	14790	15369	17376	17559 18054			23614		19678	19031	15311 15541	13930	223588	
1985			14973	14026	15413			21688							219896 223160	
1986 1987			16042	13947 15722	15686 16450	16182 19785	20035	21113		23515 22828	20105 21224	17463 19387	17976 15352	16766 15743	226387	
1988	645,284	640,125			17706	18050	19520	21161			16633	19560	13656	18663	220495	
1989	693,563	•	15726 15576	15224 15828	17700	19877			23551			19555		18923	233780	
1990		620,699			17292									16790		
1990	037,070	020,077	10374	14303	17272	10421	10003	17999	21723	20700	20141	17103	17141	10170	210009	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION									_				good	afp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	4.83	2994837	473	470	454	188	179	195	230	221	199	190	176	155	181	0.20
1981	4.01	3090422	132 156	138 159	156 130	164	189	224	229	217	216	168	168	163	182	0.20
1982		3178059	137	151	127	154	179	188	207	217	199	169	169	155	171	0.20
1983		3200689	139	153	155	158	174	196	212	217	199	178	176	158	176	0.19
1703		3291976	145	161	170	178	209	209	231	210	216	192	155	137	186	0.19
100/		3291976	147	152	151	183	189	220	233	226	199	187	157	151	183	0.20
1984		3351324	154	149	151	161	210	210	217	226	200	168	179	161	182	0.20
1985			150	162	151	190	186	210	200	212	200	180	147	146	179	0.20
1985 1986			130	102			166	186	191			167	120	159	160	0.20
1985 1986 1987	5.38			470	454			100	171	189	146	10/	160		IOU	U. 1/
1985 1986 1987 1988	5.38 5.46	3785433	134	139	151	159				202	197	170				0.20
1985 1986 1987 1988 1989	5.38 5.46 5.54	3785433 3546600	134 142	159	158	187	188	198	214	202	183	178	186	172	181	0.20
1985 1986 1987 1988	5.38 5.46 5.54	3785433	134							202 188	183 188	178 173				0.20 0.18

^{1/} Number of services 3/ gpcd - gallons per capita deily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies:

	LOS ANGEL				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				, DEI FOL			SURFA	CE WATE	2	86	
				COAST		SYSTE	M SERVE	S:					AND SP		14	
		#			OS ANGE		, ounte					-	7000 01		14	
			89				Y			х						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION						TY				00002	01 101112	. (п. р	or contry.	
												PURCH	ASED		86	
													SUPPLIE			
1,,,,,,		,			SERVICE	CONNEC	TIONS	/1							**	
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	12.231			ed	185			ed	5			ed	80		
	ate				Rate	61			Rate	-			Rate	0		
						٠.				_				•		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	11,354	11,354	112 0	112 0	116.0	147 0	150 N	182 N	196.0	187 0	163.0	156.0	153 N	135 0	1818 0	
1981	11,500		131.0		158.0			213.0					136.0	133.0	2112.0	
1982	11,750	11,750			129.0	78.0		111.0				145.0	153.0	99.0	1476.0	
1983	12,000				127.0								147.0		1919.0	
1984	12,000	12,000				174.0		210.0				196.0		142.0		
1985	12,350		151.0		158.0	180.0		211.0			198.0			151.0		
1986	13,500	,	163.0			179.0		219.0			200.0	187.0	168.0	170.0	2246.0	
1987	13,000		165.0		170.0			223.0					165.0	158.0	2321.0	
1988	12,500		166.0					223.0			207.0	199.0	168.0	168.0	2352.0	
1989	12,800				182.0									184.0	2419.0	
1990	12,800	12,800														
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DER CAR	ITA WAT	FR USF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					rek Gar	IIA WAL	LK UJL	(Spea//	,				gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	2.78	31,542	115	122	119	155	163	192	200	191	172	160	162	138	158	0.177
1981	2.75	31,633	134	166	161	188	209	224	270	192	168	203	143	136	183	0.205
1982	2.72	32,000	126	140	130	81	93	116	126	156	145	146	159	100	126	0.142
1983	2.70	32,353	140	127	127	142	168	195	216	196	186	160	151	140	163	0.182
1984	2.67	32,026	149	163	177	181	210	219	231	221	218	197	169	143	190	0.213
1985	2.64	32,622	149	153	156	184	199	216	234	229	202	188	151	149	185	0.207
1986	2.61	35,291	149	130	138	169	194	207	217	212	189	171	159	155	174	0.195
1987	2.59	33,629	158	161	163	199	212	221	222	224	207	185	164	152	189	0.212
1988	2.56	31,994	167	176	192	199	222	232	234	227	216	201	175	169	201	0.226
1989	2.53	32,413	155	156	181	205	222	231	247	246	224	203	196	183	204	0.229
1990	2.50	32,063	169	168	182	192	208	220	250	221	217	204	189	176	200	0.224
AVERAGE			146	151	157	172	191	207	222	210	195	183	165	149	179	0.201

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COLINITY	LOS ANGEL	EC		UATER A	GENCY		MAYLEY CO.	MITTIA	LIATER	CO #1		OBICIE (OE LIATES	lin -		
	HUNTINGTO				AGENCY.					. #I		OKIUIN I	or WATE	C (in p	ercent):	
		M PAKK		TIPE OF	AGENUT)	MAIER A	SSUCIALI	UN			CUREA	CE WATER		NA	
				TOLOT		OVOTE	4 05015									
							4 SERVE	S:				WELLS	AND SPI	RINGS	NA	
		#		LITAN L												
DAU #	•••••	•••••	89													
								OUTSIDE.				SOURCE (OF WATER	(in p	ercent):	
	ISUS POPUL							η								
		•			OTHE	R	• • • • • • •	• • • • • • • •	•••••				ASED		30	
1990		7,500										SELF	SUPPL I EI)	70	
					SERVICE	CONNECT										
RESIDENT				COMMERC				INDUSTRI				GOVERNM				
	d	•			ed	NA		Metere	d			Heter	ed	NA		
Flat R	ate	. 0		Flat	Rate	NA		Flat R	ate	NA		Flat I	Rate	NA		
YEAR OF		SERVICE			1	OTAL W	ATER IN	TO SYSTE	M (MIL	LION GAI	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,000	1,000	/5		-	-		-	-	-	-	-	-	-	-	
1981	-			-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-		-	-	-	_	-	
1983			-	-	-		-	-			_	-	-	-	-	
1984				-			-	-		-	_	-	-	-	_	
1985			-	-	-	-	-	-		-		-	-	-	-	
1986	1,250	1,250	27.0	18.0	24.0	6.0	24.0	6.0	22.0	21.0	18.0	18.0	18.0	26.0	228.0	
1987	1,250	1,250	26.0	27.0	27.0	30.0	34.0	35.0	33.0	36.0	27.0	33.0	32.0	32.0	372.0	
1988	1,250	1,250	26.0	30.0	31.0	27.0	33.0	32.0	33.0	33.0	29.0	30.0	29.0	29.0	362.0	
1989	1,230	1,230	24.0	28.0	27.0	36.0	31.0	33.0	36.0	35.0	35.0	29.0	31.0	30.0	375.0	
1990	1,230	1,230	26.0	24.0	24.0	23.0	25.0	28.0	35.0	32.0	30.0	28.0	27.0	25.0	327.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					SED CAD	ITA WATE	D LICE	(gpcd)/3					ANNUALLY	
OF	CONNEC-	TION				,	LK CAP	IIA MAIL	N OOL	(gpcu)/.	,			,	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	5.00	5,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	5.11		-	-	-	-	•	-	-	-	-	-	-	-	-	-
1982	5.22		-	-	-	•	-	-	-	-	-	-	-	-	-	•
1983	5.33		-	-	-	•	-	-	•	-	-	-	-	-	-	-
1984	5.44		-	-	-			-	-	-	-	-	-	-	-	•
1985	5.55		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	5.66	7,073	123	91	109	28	109	28	100	96	85	82	85	119	88	0.099
1987	5.77	7,210	116	134	121	139	152	162	148	161	125	148	148	143	141	0.158
1988	5.88	7,348	114	141	136	122	145	145	145	145	132	132	132	127	135	0.151
1989	5.99	7,365	105	136	118	163	136	149	158	153	158	127	140	131	139	0.156
1990	6.10	7,500	112	114	103	102	108	124	151	138	133	120	120	108	119	0.134
AVERAGE			114	123	118	111	130	122	140	139	127	122	125	126	125	0,140
			114		110		150	16.6	140	1.37	127	16.6	(fall	120	16.3	J. 140

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable

COUNTY	LOS ANGELI	ES	1	ATER AC	GENCY		RCHARD	DALE W	ATER DIS	STRICT	c	RIGIN C	F WATER	(in p	ercent):	
CITY	WHITTIER ,	/5	1	YPE OF	AGENCY.	F	UBLIC W	ATER D	ISTRICT							
SYSTEM #			19101									SURFAC	E WATER		50	
YDROLOG	IC REGION	s	OUTH CO	DAST		SYSTEM	SERVES	:				WELLS	AND SPR	INGS	50	
LANNING	SUBAREA :	#	ETROPOL	ITAN LO	OS ANGEL	ES										
AU #			89		ENTI	RE CITY	·									
					ENTI	RE CITY	PLUS C	UTSIDE			S	OURCE C	F WATER	(in p	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	ΥΥ								
1980		12,000			OTHE	R)	(PURCH/	SED		50	
1990		20,000										SELF S	UPPLIED		50	
					SERVICE	CONNECT	TIONS /	′1								
ESIDENT	IAL:		(COMMERCI	IAL:		1	NDUSTR	IAL:		0	OVERNME	NTAL:			
Metere	d	4,050		Metere	ed	108		Meter	ed	HA		Metere	d	11		
Flat R	ate	0		Flat F	Rate	0		Flat	Rate	0		Flat F	late	0		
YEAR	ACTIVE	SERVICE			Т	OTAL W	TER INT	O SYST	EM (MILI	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,700	3,700	40.0	33.0	35.0	64.0	64.0	81.0	91.0	88.0	72.0	70.0	62.0	54.0	754.0	
1981	3,746	3,746	51.0	41.0	32.0	44.0	59.0	83.0	88.0	86.0	71.0	63.0	48.0	54.0	720.0	
1982	3,746	3,746	50.0	50.0	38.0	51.0	39.0	64.0	74.0	74.0	60.0	68.0	70.0	43.0	681.0	
1983	3,768	3,768	46.0	39.0	43.0	45.0	59.0	68.0	88.0	86.0	78.0	55.0	46.0	42.0	695.0	
1984	3,826	3,826	50.0	42.0	59.0	59.0	95.0	87.0	64.0	59.0	70.0	57.0	54.0	46.0	742.0	
1985	3,826	3,826	76.0	58.0	70.0	82.0	77.0	87.0	100.0	100.0	76.0	62.0	54.0	57.0	899.0	
1986	3,949	3,949	58.0	48.0	57.0	62.0	74.0	91.0	103.0	113.0	78.0	69.0	61.0	58.0	872.0	
1987	3,849	3,849	56.0	53.0	53.0	75.0	83.0	89.0	92.0	102.0	86.0	64.0	51.0	48.0	852.0	
1988	4,034	4,034	51.0	53.0	65.0	63.0	76.0	90.0	99.0	90.0	82.0	72.0	55.0	54.0	850.0	
1989	4,053	4,053	52.0	46.0	57.0	77.0	80.0	81.0	97.0	93.0	74.0	61.0	63.0	59.0	840.0	
1990	4,050	4,050	47.0	41.0	54.0	54.0	72.0	74.0	90.0	82.0	75.0	66.0	55.0	53.0	763.0	
	PERSONS	AVERAGE		<u>, , </u>												
YEAR	PER	POPULA-					PER CAP	TA WAT	FR USE	(gpcd)/3					ANNUALLY	
OF	CONNEC-	TION								(Specific					gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	1
1980	3.24	12,000	108	95	94	178	172	225	245	237	200	188	172	145	172	0.1
1981	3.41	12,784	129	115	81	115	149	216	222	217	185	159	125	136	154	0.1
1982	3.58	13,419	120	133	91	127	94	159	178	178	149	163	174	103	139	0.
1983	3.75	14,137	105	99	98	106	135	160	201	196	184	126	108	96	135	0.
1984	3.92	15,003	108	97	127	131	204	193	138	127	156	123	120	99	136	0.
1985	4.09	15,651	157	132	144	175	159	185	206	206	162	128	115	117	157	0.
1986	4.26	16,824	111	102	109	123	142	180	197	217	155	132	121	111	142	0.1
1987	4.43	17,050	106	111	100	147	157	174	174	193	168	121	100	91	137	0.1
1988	4.60	18,553	89	99	113	113	132	162	172	156	147	125	99	94	126	0.1
1989	4.77	19,328	87	85	95	133	134	140	162	155	128	102	109	98	119	0.1
	4.94	20,000	76	73	87	90	116	123	145	132	125	106	92	85	105	0.1
1990	****															

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{/5} Agency serves unincorporated portion of Los Angeles county

	LOS ANGEL				GENCY							ORIGIN	OF WATER	R (in p	ercent):	
	PARAMOUNT			TYPE OF	AGENCY		MUNICIP.	AL WATE	R DEPAR	TMENT						
		• • • • • • • • • • • • • • • • • • • •											CE WATER			
							M SERVE	S:				WELLS	AND SPI	RINGS	70	
		#		DLITAN L												
AU #	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	89				Υ			Х						
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL						THE CI								-	
	••••••	•			ОТНІ	ER	• • • • • • •	• • • • • • •	• • • • • • •				ASED			
1990	• • • • • • • • •	47,009			ornut or	COMME	TIONE	/4				SELF	SUPPLIE	D	70	
FOID FUT					SERVICE	CONNEC			TAL .			COL ET DAME	CMTAL -			
ESIDENTI		E 704		COMMERC		414		INDUSTR		404		GOVERNM		298		
	1				ed				ed	606			ed	290		
FLAT KE	ate	U		rtat	Rate	U		rtat	Rate	U		rtat	Rate	U		
YEAR	ACTIVE	CEDVICE				TOTAL U	ATED IN	TO SYST	EM (MIL	LTON CA	LLONGY					
OF		TIONS /2				IOIAL W	NIEN IN	.0 3131	ru (utr	LION OF	LLUNG)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6.147	6,147	/5			-			201.0	215.0	187.0	177.0	172.0	146.0		
1981	6,147	•	-	141.0	150.0	166.0	182.0	217.0							2115.0	
1982	6.346	•	149.0		165.0	164.0	180.0	184.0	208.0	217.0	183.0	183.0	156.0	149.0	2075.0	
1983	6,420	6,420	145.0	130.0			164.0	169.0	208.0						2042.0	
1984	6,520	6,520	147.0	157.0	167.0	161.0	181.0	202.0	232.0		216.0	194.0	157.0	142.0	2174.0	
1985	6,710	6,710	149.0	144.0	168.0	183.0	203.0	220.0	251.0	243.0	208.0	203.0	167.0	162.0	2301.0	
1986	6,800	6,800	165.0	142.0	170.0	187.0	218.0	226.0	240.0	248.0	211.0	191.0	185.0	174.0	2357.0	
1987	7,100	7,100	160.0	144.0	179.0	207.0	219.0	220.0	227.0	238.0	220.0	206.0	170.0	168.0	2358.0	
1988	6,777	6,777	169.0	165.0	196.0	192.0	211.0	230.0	246.0	236.0	217.0	205.0	181.0	171.0	2419.0	
1989	7,078	7,078	173.0	158.0	188.0	211.0	225.0	230.0	243.0	247.0	223.0	210.0	190.0	188.0	2486.0	
1990	7,106	7,106	181.0	165.0	193.0	180.0	209.0	212.0	247.0	236.0	222.0	211.0	197.0	192.0	2445.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DED CAD	ITA UAT	ER USE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					r LK GA	· in wat	ER OUL	(Spea))	-				gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	5.92	36,407		-	-				178	190	171	157	157	129		
1981	6.00	36,890	127	137	131	150	159	196	199	191	175	143	147	129	157	0.17
1982	6.08	38,583	125	127	138	142	150	159	174	181	158	153	135	125	147	0.16
1983	6.16	39,537	118	117	109	131	134	142	170	168	200	150	132	125	142	0.1
1984	6.24	40,665	117	133	132	132	144	166	184	173	177	154	129	113	146	0.1
1985	6.32	42,377	113	121	128	144	155	173	191	185	164	155	131	123	149	0.1
	6.39	43,480	122	117	126	143	162	173	178	184	162	142	142	129	149	0.1
1986	6.47	45,956	112	112	126	150	154	160	159	167	160	145	123	118	141	0.1
1986 1987			123	128	142	144	153	173	179	171	163	149	136	124	149	0.16
	6.55	44,397	123													
1987	6.55 6.63	44,397	119	120	129	150	155	163	167	170	158	144	135	129	145	0.16
1987 1988		•			129 131	150 126	155 141	163 148	167 167	170 160	158 155	144 143	135 138	129 130	145 141	0.16

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ sfpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable

	LOS ANGEL				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	PICO RIVE			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
													CE WATE		0	
	IC REGION				00 41105		M SERVE	S:				WELLS	AND SP	RINGS	100	
	SUBAREA			LIIAN L												
DAU #			89					OUTSIDE		Х		COLIDAT	05 144	n 41		
	C 10 DOD!!!	47700						TY				SOURCE	OF WATE	K (in p	ercent):	
	ISUS POPUL											DUDGU	ACED		0	
					OTH				• • • • • • • •				ASED SUPPLIE			
1990		31,013			SERVICE	CONNEC	TIONS	/1				SELF	SUPPLIE	J	100	
RESIDENT	TAL .			COMMERC		CONNEC		INDUSTR	TAI .			GOVERNM	ENTAL .			
	d	4,674			ed	371			ed	5			ed	77		
	ate				Rate	0			Rate				Rate	0		
rtat k				1100	Kate	٠		1 tat	nate	٠		1100	Nate	·		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	8,494	8,494	/5	-		-	-	-	209.0	194.0	166.0	158.0	144.0	127.0		
1981	8,494	8,494	114.0	107.0	117.0	137.0	162.0	199.0	212.0	210.0	179.0	140.0	131.0	117.0	1825.0	
1982	8,494	8,494	108.0	104.0	109.0	125.0	148.0	162.0	200.0	187.0	156.0	155.0	118.0	107.0	1679.0	
1983	8,494	8,494	118.0	97.0	108.0	114.0	146.0	163.0	200.0	186.0	173.0	146.0	122.0	120.0	1693.0	
1984	9,032	9,000	91.0	96.0	113.0	115.0	145.0	146.0	236.0	220.0	209.0	171.0	128.0	115.0	1785.0	
1985	9,570	9,535	121.0	118.0	134.0	160.0	184.0	195.0	231.0	211.0	185.0	173.0	139.0	136.0	1987.0	
1986	9,500	9,500	140.0	115.0	139.0	164.0	200.0	193.0	231.0	233.0	184.0	159.0	152.0	164.0	2074.0	
1987	8,900	8,875	140.0	115.0	138.0	165.0	200.0	193.0	230.0	232.0	183.0	158.0	151.0	146.0	2051.0	
1988			-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	9,531	9,531	133.0	117.0	150.0	186.0	201.0	208.0	208.0	211.0	197.0	168.0	173.0	128.0	2080.0	
1990	9,050	9,050	148.0	127.0	132.0	150.0	162.0	175.0	207.0	199.0	192.0	171.0	155.0	134.0	1952.0	
	DEDGUNG	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION								Cap	-				gpcd	afpce
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.93	33,421	-	-	-	-	-	-	202	187	166	153	144	123	1	•
1981	3.95	33,559	110	114	112	136	156	198	204	202	178	135	130	112	149	0.167
1982	3.97	33,696	103	110	104	124	142	160	191	179	154	148	117	102	137	0.153
1983	3.98	33,834	113	102	103	112	139	161	191	177	170	139	120	114	137	0.154
1984	4.00	36,123	81	92	101	106	129	135	211	196	193	153	118	103	135	0.152
1985	4.02	38,430	102	110	112	139	154	169	194	177	160	145	121	114	142	0.159
1986	4.03	38,303	118	107	117	143	168	168	195	196	160	134	132	138	148	0.166
1987	4.05	36,028	125	114	124	153	179	179	206	208	169	141	140	131	156	0.175
1988	4.06		-	-	-	-			-	-	-	470	410	404	447	
1989	4.08	38,891	110	107	124	159	167	178	173	175	169	139	148	106	147	0.164
1990	4.10	37,075	129	122	115	135	141	157	180	173	173	149	139	117	144	0.162
AVERAGE			110	109	113	134	153	167	195	187	169	144	131	116	144	0.161

^{1/} Number of services

3/ gpcd - gallons per capita daily

4/ afpca - acre-feet per capita annually

.....

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

	LOS ANGEL MONTEBELL				AGENCY.			RIEL VAL					west for	, in pa	ercent):	
				TIPE OF	AGENCI		MVESTO	K OWNED				CIDEAC	E WATER		100	
				DACT		everch	SERVE						AND SPE		0	
		#			OC ANCEI		JERVE	.3.				WELLS	AND SPI	THUS	U	
	SUBANEN		89	CTIAN E			,									
UAU #	••••••	• • • • • • • • • • • • • • • • • • • •	0,					OUTSIDE.				enillere r	E LIATES	(in n	ercent):	
CITY CEN	SUS POPUL	ATTON						TY		х	·	SOURCE (AL MATIES	Cin pe	il cert():	
										^		PLIPCHA	SED		100	
		-			01111								SUPPL I EI		0	
177011	•••••	4,.00			SERVICE	CONNECT	TONS	/1				0000			•	
RESIDENT	TAL:			COMMERC				INDUSTRI	AL:			GOVERNME	NTAL:			
	d	1,571			ed	2			ed	0	·		ed	8		
	ate				Rate	0			Rate	0			late	0		
		•				•				•				•		
YEAR	ACTIVE	SERVICE			1	TOTAL W	TER IN	TO SYSTE	M (MILI	LION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1000	4 500	4 500	·····												202.6	
1980 1981	1,580	1,580	/5	-	•	•	•	-	-	•	-	-	•	-	282.0 279.0	
	1,580		-	-	-	-	•	-	-	•	•	-	-	-		
1982	1,580	1,580	-	-	-	-	•	-	-	-	-	-	-	-	266.0	
		1,580	•	-	-	-	•	-	•	-	-	-	-	-	283.0	
1984	1,580	1,580	-	-	-	-	-	-	-	-	•	-	-	-	335.0	
1985	1,580	1,580	-	-	-	-	-	-	-				-	-	307.0	
1986	1,580	1,580	21.0	19.0	20.0	29.0	32.0	33.0	35.0	36.0	32.0	26.0	20.0	19.0	322.0	
1987	1,580	1,580		-	-	-	-	-	-	-	-	-	-	-	323.0	
1988	1,580	1,580	20.0	21.0	26.0	23.0	30.0	32.0	36.0	34.0	30.0	28.0	23.0	21.0	324.0	
1989	1,580	1,580	19.0	16.0	21.0	28.0	31.0	32.0	37.0	36.0	31.0	27.0	26.0	25.0	329.0	
1990	1,581	1,581	20.0	17.0	22.0	22.0	25.0	27.0	33.0	30.0	30.0	28.0	23.0	21.0	298.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	ER CAP	ITA WATE	R USE	(gpcd)/3	3				WHUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.97	4,700			-	-			-		-		·		164	0.18
1981	2.97	4,700													163	0.18
1982	2.97	4,699			-							_	_	_	155	0.174
1983	2.97	4,699				-		-			_				165	0.18
1984	2.97	4,699			-							_			195	0.219
1985	2.97	4,699						_							179	0.20
1986	2.97	4,698	144	144	137	206	220	234	240	247	227	179	142	130	188	0.210
	2.97	4,698		177	-	-			1.40	241	D-R- 7		176		188	0.21
1987							201		2/7	233	247	400	447			
1987 1988	2.97	4.69R	157	154	179	105	2110	771	141					166		
1987 1988 1989	2.97	4,698	137	154	179 144	163	206 213	227 227	247 254	247	213 220	192 185	163 185	144 172	189 192	0.21

^{1/} Number of services

AVERAGE

137 137 153 181 203 220 242 233 218 187 163 148 177 0.199

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COOMITIC.	LOS ANGEL	ES		WATER A	GENCY		SANTA F	E SPRIN	GS, CIT	Y OF		ORIGIN	OF WATE	R (in p	ercent):	
CITY	SANTA FE	SPRINGS		TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	TMENT						
SYSTEM #			19245									SURFA	CE WATE	R	49	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	46	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			89		ENT	IRE CIT	Y									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOLIRCE	OF WATE	R (in n	ercent):	
CITY CEN	SUS POPUL	ATION						TY							.,, .	
										x		PURCH	ASED		54	
		-											SUPPLIE			
1770	•••••	10,200			SERVICE	CONNEC	TIONS	/1				0221	0011616			
RESIDENT	TAL .			COMMERC		00111120		INDUSTR	TAI -			GOVERNM	ENTAL .			
	d	3,206			ed	1 417			ed	117			ed	139		
	ate				Rate	0			Rate	0			Rate			
rtat K	ate	U		rtat	Kate	U		rtat	Kate	U		rtat	Kate	U		
YEAR	ACTIVE					TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														- 20
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,314	3,994	/5			-			225.0	217.0	186.0	182.0	186.0	167.0		
1981	4,314	3,994	155.0	150.0		184.0			230.0							
1982	4,695	4.397	133.0	.50.0	-		104.0	204.0	236.0	238.0	198.0	197.0	168.0	161.0		
1983	4,695	4,397	167.0	145.0	159.0		195.0	218.0	242.0	245.0	232.0	198.0	173.0		2300.0	
1984	4,804	4,804	164.0	175.0	208.0	185.0	217.0	233.0		253.0	237.0	219.0	172.0	142.0	2455.0	
1985	4,840	4,541	161.0	153.0	181.0	208.0	236.0	249.0	271.0	273.0	236.0	240.0	188.0	183.0	2579.0	
1986	4,974	4,974	190.0	163.0	187.0			263.0			248.0	232.0	209.0	195.0		
1987					209.0			300.0							2711.0	
	5,057	4,724	194.0	186.0	209.0	240.0	207.0	300.0			283.0	249.0	211.0	205.0	2990.0	
1988	4,750	4,430	-		-	-	-			319.0		287.0		229.0	-	
1989	4,750	4,430	222.0	189.0	253.0			303.0				268.0	242.0		3199.0	
1990	5,320	4,986	219.0	207.0	248.0	255.0	2/2.0	293.0	326.0	334.0	293.0	282.0	253.0	232.0	3214.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAF	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.50	10,801							672	648	574	544	574	499		
1981	2.58	11.123	450	482	464	551	534	611	667	-	-			-	-	
1982	2.65	12,455	-	-	-	-	-	-	611	616	530	510	450	417	-	
1983	2.73	12,805	421	404	401	450	491	567	610	617	604	499	450	385	492	0.551
1984	2.80	13,460	393	448	498	458	520	577	599	606	587	525	426	340	500	0.560
1985	2.88	13,922	373	392	419	498	547	596	628	633	565	556	450	424	508	0.568
1986	2.95	14,678	418	397	411	456	563	597	609	637	563	510	475	429	506	0.567
	3.03	15,300	409	434	441	540	605	654	643	660	617	525	460	432	535	0.600
1097		14,725	409	434	441	340	- 003	0.04	736	699	672	629	536	502	-	0.000
1987	7 10		-	-	-	_	-	-	730	977			230	302	-	
1988	3.10	•	/70	110	E/4	404	E07	670	405	450	610	E 77	EZE	E71	694	0 454
1988 1989	3.17	15,079	475	448	541	606	597	670	685	659	648	573	535	531	581	0.651
1988		•	475 409	448 428	541 463	606 492	597 508	670 565	685 608	659 623	648 565	573 526	535 488	531 433	581 509	0.651

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL								CITY OF			ORIGIN	OF WATE	R (in p	ercent):	
	SANTA MON			TYPE OF	AGENCY	• • • • • • • • • • • • • • • • • • • •	MUNICIP	AL WATE	R DEPAR	THENT					-	
	·····												CE WATE			
	IC REGION						M SERVE	S:				WELLS	AND SP	RINGS	30	
	SUBAREA			LITAN L												
DAU #		• • • • • • • • •	. 89			IRE CIT				Х						
									• • • • • • •			SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL					TION OF										
	•••••				ОТН	ER	• • • • • • •	• • • • • • •	•••••				ASED			
1990	•••••	86,905										SELF	SUPPLIE	D	30	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed				ed				ed			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2				- "										
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	15,178										430.7					
1981	15,399	15,399			387.3				549.7		498.5				5391.1	
1982	15,448										579.5					
1983	15,182	15,182										537.0				
1984	15,521				480.5						549.0					
1985	15,237	15,237			453.3				589.4	645.1	523.4	516.5	445.9		6032.2	
1986	15,400	•			441.0						501.0				5965.0	
1987	15,227	•			463.7						419.1				6160.0	
1988	15,606										494.0					
1989	15,175										493.4				5810.9	
1990	16,594	16,594	444.0	390.1	443.2	424.9	467.3	465.0	506.7	475.1	463.0	444.5	393.3	395.9	5313.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	5.82	88,314	137	132	128	180	163	182	197	196	163	173	166	177	167	0.187
1981	5.76	88,705	140	154	141	160	167	183	200	192	187	171	155	147	167	0.186
1982	5.70	88,089	153	158	155	153	171	192	219	217	219	197	180	169	182	0.204
1983	5.64	85,689	163	156	155	166	157	189	208	197	206	202	191	172	180	0.202
1984	5.59	86,700	169	178	179	192	203	209	211	205	211	178	173	161	190	0.202
1985	5.53	84,228	170	187	174	186	202	215	226	247	207	198	176	166	196	0.220
1986		84,233	172	165	169	176	213	206	219	231	198	192	192	191	194	0.217
1987	5.41	82,402	197	202	182	218	223	226	211	215	170	201	238	176	205	0.229
1988	5.35	83,545	173	180	186	182	197	196	200	197	197	185	168	168	186	0.209
1989	5.30	80,356	172	170	200	192	202	214	219	219	205	197	192	193	198	0.222
1990	5.24	86,905	165	160	165	163	173	178	188	176	178	165	151	147	167	0.188

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY.	LOS ANGEL	.ES			GENCY							ORIGIN	OF WATE	R (in p	percent):	
	SOUTH GAT			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	THENT						
	F											SURFA	CE WATE	R	98	
	GIC REGION						M SERVE	S:				WELLS	AND SP	RINGS	. 2	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			. 89		ENT	IRE CIT	γ		• • • • • • •	X						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	percent):	
CITY CE	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		59,950			OTH	ER						PURCH	ASED		98	
1990.		76,800										SELF	SUPPLIE	D	. 2	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	:IAL:			INDUSTR	IAL:			GOVERNIM	ENTAL:			
Netere	ed	12,602		Meter	ed	1,202		Meter	ed	91		Meter	ed	63		
Flat F	Rate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	15,673	15,673	211.0	200.0	262.0	240.0	391.0	360.0	385.0	277.0	274.0	347.0	292.0	318.0	3557.0	
1981	14,699			251.0					432.0						3953.0	
1982	14,353	•			190.0										3348.0	
1983	14,333	-			279.0										3996.0	
1984	14,377	•			336.0										4244.0	
1985	14,397	14,397			300.0										3846.0	
1986	14,257	•		205.0					354.0			310.0			3553.0	
1987	14,500	•			306.0							300.0	232.0		3613.0	
1988	14,500				291.0							294.0			3541.0	
1989	14,500				287.0											
1990	14,080				282.0											
	DEDOGUE	4150405														
YEAR	PERSONS	AVERAGE POPULA-					DED CAR	TTA LIAT	ER USE	(amod) (7				ANNUALLY	
OF	CONNEC-	TION					PER CAP	TIV MVI	ER USE	(gpcu)/	3					
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	afpca /4
RECORD	1104	JERVED	J/M		TVA	AFR		300	JUL	700	JEF		NOV	DEC	/3	
1980	3.83	59,950	114	115	141	133	210	200	207	149	152	187	162	171	163	0.182
1981	3.99	58,620	140	153	143	168	187	230	238	214	206	190	175	172	185	0.207
1982	4.15	59,579	111	101	103	167	136	154	197	197	181	187	154	156	154	0.172
1983	4.31	61,831	143	145	146	162	174	196	222	227	223	170	164	152	177	0.198
1984	4.48	64,364	141	166	168	168	202	192	231	228	198	184	157	127	181	0.202
1985	4.64	66,799	132	144	145	160	173	190	184	193	174	152	118	127	158	0.177
1986	4.80	68,473	124	107	107	139	174	178	167	177	148	146	115	121	142	0.159
1987	4.97	72,003	113	114	137	162	150	154	159	143	157	134	107	117	137	0.154
1988	5.13	74,365	97	115	126	128	134	146	152	149	149	128	120	119	130	0.146
1989	5.29	76,728	102	104	121	133	135	146	142	145	145	126	127	124	129	0.145
1990	5.45	76,800	97	110	118	110	135	121	137	147	118	125	123	104	121	0.135
AVERAGE			120	125	132	148	165	173	185	179	168	157	139	136	152	0,171
MENAGE			120	123	132	140	103	113	103	179	100	137	139	130	132	0.171

^{1/} Number of aervices

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	.ES			GENCY					S		ORIGIN	OF WATE	R (in p	ercent):	
CITY	WHITTIER			TYPE OF	AGENCY		INVESTO	R OWNED								
SYSTEM #			19174									SURFA	CE WATE	R	8	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	92	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			89		ENT	IRE CIT	Y									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY		х						
1980		30,000			ОТН	ER						PURCH	ASED		28	
1990		51,255										SELF	SUPPL IE	D	72	
		•			SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	16,785		Meter	ed	631		Meter	ed	3		Meter	ed	58		
	ata				Rate				Rate				Rate			
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	16,285	16,285	/5		-	-	-		-	_	-					
1981	,										-		-		-	
1982			-	-		-	-	-	-	-	-	-	-	-	-	
1983						-	-		-	-	-		-	-		
1984	16,500	16,500	304.0	347.0	469.0	462.0	576.0	559.0	620.0	615.0	543.0	451.0	342.0	284.0	5572.0	
1985	16,600	16,600	304.0		343.0								414.0			
1986	16,700	16,700			430.4								436.1			
1987	16,950	16,950			354.7			482.0				475.0				
1988	17,085	17,085	336.0		529.0				621.0				420.0		5840.0	
1989	17,332				373.0											
1990	17,423	•			413.0											
	2522010															
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	TTA LIAT	ER USE	(anod)	7				ANNUALLY	
OF	CONNEC-	TION					FER GAP	IIA WAI	LK USE	(Shen)/	,				apcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
		SERVED		LED	PAK	AFK	mai	JUN	JUL	AUG	SEP	0.1	NOV	DEC	/3	/4
1980	1.84	30,000														
1981	1.95	30,000				_		_				_		_		
1982	2.06			•			•	•		•	-	•			_	_
													•	•		
1983	2.17	77 454										701	707	2/7		
1984	2.28	37,654	260	318	402	409	493	495	531	527	481	386	303	243	405	0.454
1985	2.39	39,707	247	255	279	332	363	455	501	459	426	424	348	317	368	0.412
1986	2.50	41,783	350	331	332	388	448	477	473	473	391	365	348	320	392	0.439
1987	2.61	44,272	284	265	258	376	411	363	427	425	398	346	251	238	337	0.378
1988	2.72	46,503	233	286	367	356	371	380	431	402	368	340	301	280	344	0.385
1989	2.83	49,081	243	212	245	301	301	313	350	328	308	266	271	270	285	0.319
1990	2.94	51,255	211	217	260	241	268	284	334	287	294	276	252	240	264	0.296
AVERAGE			261	269	306	343	380	395	435	414	381	343	296	273	342	0.383

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants,

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

fire protection, and other agencies.

^{/5} Missing data unavailable

	LOS ANGEL	ES			GENCY			*		TMENT		ORIGIN	OF WATE	R (in p	ercent):	
												SURFA	CE WATE	R	92	
	IC REGION			COAST		SYSTE	M SERVE	S:					AND SP		8	
	SUBAREA				OS ANGE											
DAU #			89		ENT	IRE CIT	Υ			x						
								OUTSIDE				SOURCE	OF WATE	R (in n	ercent):	
CITY CEN	SUS POPUL	ATION						TY					J. 11.12	. сп. р		
												PURCH	ASED		92	
		•											SUPPL IE			
.,,,,,,,					SERVICE	CONNEC	TIONS	/1				0221				
RESIDENT	TAL:			COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	22 300			ed	2 043			ed	105			ed	877		
	ate				Rate	•			Rate	0			Rate			
1101		•		1 (00		•			Nacc	•		1100	Nate	٠		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	23,916	23,841	496.0	461.0	521.0	620.0	641.0	678.0	791.0	811.0	665.0	649 D	631.0	555.0	7519 D	
1981	24,632	24,557											540.0	482.0	7950.0	
1982	24,735	24,660												401.0		
1983	24,500	24,425													6773.0	
1984	24,800	24,725													7312.0	
1985	25,075	25,003													6927.0	
1986	25,200	25,137											577.0		7029.0	
1987	25,200	-			550.0										7647.0	
1988	25,250	•			629.0								579.0	565.0	7925.0	
1989	25,433				626.0											
1990	25,345	25,325														
	25,545	27,323	312.0	720.0			711.0	714.0	501.0	700.0	754.0	011.0	w1.0	010.0		
		AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	3.99	95,449	168	167	176	217	217	237	267	274	232	219	220	188	216	0.242
1981	3.97	97,883	196	188	181	213	241	289	287	267	245	218	184	159	223	0.249
1982	3.96	97,866	147	152	152	175	212	210	240	235	201	199	162	132	185	0.207
1983	3.94	96,514	166	155	159	172	193	223	250	246	229	185	165	161	192	0.215
1984	3.92	97,268	163	188	198	205	241	241	245	244	231	195	167	146	206	0.231
1985	3.90	97,915	153	162	169	204	214	230	246	236	216	190	157	147	194	0.217
1986	3.89	97,969	153	142	146	198	211	221	255	244	216	193	196	180	197	0.220
1987	3.87	97,535	175	182	182	228	248	253	250	259	249	201	175	172	215	0.241
1988	3.85	97,294	179	190	209	210	240	259	273	258	245	220	198	187	223	0.250
1989	3.84	97,561	185	180	207	241	253	260	281	274	258	226	232	214	235	0.263
1990	3.82	96,786	191	195	212	219	237	246	267	260	260	226	217	205	228	0.255
AVERAGE			170	173	181	207	228	243	260	254	235	207	189	172	210	0.235

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	ES		WATER A	GENCY		VALLEY	WATER C	OMPANY			ORIGIN (OF WATER	(in p	ercent):	
CITY	LA CANADA	, ET AL		TYPE OF	AGENCY		INVESTO	OR OWNED								
SYSTEM #	l		19166									SURFA	E WATER	2		
HYDROLOG	IC REGION		SOUTH C	DAST		SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #		•••••	89							X						
2.								OUTSIDE				SOURCE (OF WATER	(in p	ercent):	
	ISUS POPUL							ΤΥ								
	•••••				OTH	ER	• • • • • • •	•••••	• • • • • • •				ASED		100	
1990	•••••	10,300			oenu:		*****	14				SELF :	SUPPL I EI	,		
	****				SERVICE	CONNEC	11002	INDUSTR	7.41 .			GOVERNM	ENTAL .			
RESIDENT		7 207		COMMERC	ed	200			ed	NA			ed	NA		
	d	3,283 0			ed Rate	200			Rate	0			Rate	0		
Flat K	ate	U		rtat	Kate	U		rtat	Rate	U		rtat	tate	v		
YEAR	ACTIVE					TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,000	3,000	/5		-	-	-	-		-	-	-	-	-		
1981			-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			4	•	-	-	-	-	-	-	-	-	-	-	-	
1984	3,000	3,000	54.0	69.0	83.0	91.0	128.0	118.0	161.0	146.0	135.0	110.0	63.0	43.0	1201.0	
1985	3,435	3,435	47.0	46.0	56.0	94.0	101.0	137.0	161.0	146.0	133.0	110.0	63.0	43.0	1137.0	
1986	3,418	3,418	62.0	39.0	53.0	76.0	116.0	129.0	144.0	147.0	115.0	89.0	82.0	65.0	1117.0	
1987	3,428	3,428	60.0	53.0	58.0	101.0	112.0	126.0	131.0	143.0	128.0	96.0	53.0	51.0	1112.0	
1988	3,500	3,500	50.0	64.0	82.0	80.0	107.0	126.0	146.0	131.0	106.0	105.0	74.0	61.0	1132.0	
1989	3,500	3,500	51.0	45.0	66.0	96.0	104.0	117.0	157.0	136.0	127.0	99.0	96.0	85.0	1179.0	
1990	3,483	3,483	60.0	48.0	70.0	68.0	95.0	113.0	151.0	136.0	130.0	116.0	93.0	74.0	1154.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DER CAL	PITA WAT	FR LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								120-00					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.33	10,000														
1981	3.30	10,000		-				_				_			-	_
1982	3.26				-	-		_	-	-		_				-
1983	3.22							_	-		-	_				-
1984	3.18	9,549	182	249	280	318	432	412	544	493	471	372	220	145	345	0.386
1985	3.15	10,804	140	152	167	290	302	423	481	436	410	328	194	128	288	0.323
1986	3.11	10,622	188	131	161	238	352	405	437	446	361	270	257	197	288	0.323
1987	3.07	10,524	184	180	178	320	343		402	438	405	294	168	156	289	0.324
1988	3.03	10,614	152	208	249	251	325	396	444	398	333	319	232	185	292	0.327
1989	2.99	10,482	157	153	203	305	320	372	483	419	404	305	305	262	308	0.345
1990	2.96	10,300	188	166	219	220	298	366	473	426	421	363	301	232	307	0.344
	2.70															
AVERAGE			170	177	208	278	339	396	466	437	401	322	240	187	303	0.339

^{1/} Number of services

3/ gpcd - gallons per capita daily

4/ afpca - acre-feet per capita annually

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies. \(\)

^{5/} Missing data unavailable

COUNTY	LOS ANGEL	Ee		UATED A	CENCY		UUTTTI	R, CITY	OF.			OPICIN	OE UATE	lin n	ercent):	
	WHITTIER	E3						AL WATE		TMENT		OKIOIN	OF MALE	K (III p	ercent):	
	f		10173		Addition		10112021	THE WATE	N DEITH	Track!		SIDEA	CE WATE	D	0	
	IC REGION			COAST		SYSTE	M SERVE	s:					AND SP		100	
	SUBAREA				OS ANGE		J. OLKVI					WELLO	ALC G		100	
	·····						γ									
DAO #			0,					OUTSIDE				SOLIPOF	OF WATE	P (in r	ercent):	
CITY CEN	ISUS POPUL	ATION						TY		х		oconce.	O1 WATE	K (111)	ci cuity.	
										^		DIDCH	ASED		100	
					0111	LKOOOO	•••••						SUPPLIE		0	
177011		41,1050			SERVICE	CONNEC	TIONS	/1				022.			•	
RESIDENT	TAL:			COMMERC				INDUSTR	IAL:			GOVERNIM	ENTAL:			
	d	NA			ed	NA		Meter	ed	NA			ed	NA		
	ate				Rate	NA			Rate	NA			Rate	NA		
												, , , ,				
YEAR	ACTIVE					TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	OEC	ANNUAL	
1980	11,200	11,200	/5													
1981	11,285	11,285	175.0	160.0	170.0	205.0		324.0	771 0	329.0	291 0	226.0	202.0	177.0	2843.0	
1982	11,276	11,276	154.0	169.0	161.0			244.0			237.0				2580.0	
1983	11,598	11,598	194.0	146.0	151.0	181.0		258.0		303.0	279.0	204.0	173.0	162.0	2599.0	
1984	11,826	11,826	180.0	204.0	251.0			303.0				265.0	304.0	171.0	3249.0	
1985	11,665	11,665	174.0	174.0	204.0	250.0	270.0			335.0	255.0	249.0	204.0	178.0	2936.0	
1986	11,690	11,690	217.0	154.0	197.0					336.0	258.0	236.0	221.0	211.0	2992.0	
1987	11,715	11,715	203.0	187.0	204.0	262.0	285.0		314.0	316.0	293.0	242.0	187.0	180.0	2959.0	
1988	11,740	11,740	194.0	210.0		232.0		300.0		316.0		260.0	201.0		3041.0	
1989	11,765	11.765	171.0	168.0				254.0		354.0	278.0	243.0	235.0		3134.0	
1990	11,600	11,600						261.0								
	PERSONS	AVERAGE										-				
YEAR	PERSONS	POPULA-					DED CAL	PITA WAT	ED LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					r ER Gru	AIA WAI	LK OOL	(Speciff	-				gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.46	27,500	-	-	-	-	-	-	-	-	-	-	-	-	-	•
1981	2.62	29,515	191	194	186	232	287	366	362	360	317	247	228	193	264	0.296
1982	2.78	31,296	159	193	166	211	227	260	326	316	252	249	186	162	226	0.253
1983	2.94	34,047	184	153	143	177	221	253	298	287	273	193	169	153	209	0.234
1984	3.10	36,609	159	192	221	233	284	276	313	288	283	234	277	151	243	0.272
1985	3.26	37,978	148	164	173	219	229	262	293	285	224	211	179	151	212	0.237
1986	3.42	39,930	175	138	159	196	240	255	262	271	215	191	184	170	205	0.230
1987	3.58	41,891	156	159	157	208	219	228	242	243	233	186	149	139	194	0.217
1988	3.74	43,859	143	165	184	176	203	228	248	232	211	191	153	138	190	0.213
1989	3.90	45,836	120	131	211	193	201	185	250	249	202	171	171	158	187	0.210
1990	4.06	47,050	131	131	145	150	165	185	210	196	186	172	157	150	165	0.185
AVERAGE			157	162	175	200	228	250	280	273	240	205	185	157	209	0.235

^{1/} service connections not available

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL							ITA VALL				ORIGIN	OF WATE	R (in p	ercent):	
	LA CRESCE			TYPE OF	AGENCY	• • • • • • •	PUBLIC	WATER D	ISTRICT						7.0	
						- WATE	4 acn:						CE WATE			
	IC REGION						M SERVE	:2:				WELLS	AND SP	KINGS	68	
	SUBAREA			JETTAN L												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	90													
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							TY								
	• • • • • • • • • • • • • • • • • • • •				КТО	ER	• • • • • •		• • • • • • •	Х			ASED			
1990	• • • • • • • • •	31,000			05011105							SELF	SUPPLIE	D	68	
					SERVICE	CONNEC	ITONS		• • •							
RESIDENT		7.507		COMMERC		770		INDUSTR				GOVERNA				
	d				ed				ed				ed	NA		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	7,793	7,793	/5				-		175.0	156.0	131.0	136.0	116.0	103.0	1307.0	
1981	7,802	7,802	-	-	-	-	-	-	-	-	-	-	-	-	1502.0	
1982	7,811	7,811	-	-	-	-	-	-	-	-	-	-	-	-	1354.0	
1983	7,821	7,821	-	-	-	-		-	172.0	152.0	137.0	105.0	83.0	81.0	1296.0	
1984	7,821	7,821	96.0	106.0	120.0	128.0	168.0	167.0	199.0	178.0	169.0	142.0	98.0	87.0	1658.0	
1985	7,827	7,827	92.0	86.0	91.0	126.0	131.0	172.0	194.0	191.0	141.0	133.0	103.0	99.0	1559.0	
1986	7,856	7,856	103.0	77.0	93.0	110.0	146.0	162.0	179.0	199.0	140.0	124.0	119.0	110.0	1562.0	
1987	7,869	7,869	104.0	91.0	102.0	134.0	146.0	166.0	170.0	183.0	166.0	139.0	98.0	99.0	1598.0	
1988	7,189	7,189	-	-	-	-	-	-	175.0	167.0	154.0	144.0	109.0	105.0	1624.0	
1989	7,189	7,189	97.0	85.0	110.0	141.0	135.0	153.0	185.0	175.0	158.0	135.0	130.0	126.0	1630.0	
1990	7,902	7,902	105.0	89.0	114.0	102.0	124.0	144.0	169.0	149.0	149.0	141.0	121.0	113.0	1520.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAI	PITA WAT	FR USF	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION					2., 2.,			. 3p//					good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.50	27,250						-	207	185	160	161	142	122	131	0.147
1981	3.54	27,614	-	-		_	_	-	-	105		101	142	122	149	0.147
1982	3.58	27,979		-	-	-	-	-		_			-	_	133	0.148
1983	3.62	28.348			-	_			196	173	161	119	98	92	125	0.140
1984	3.67	28,682	108	127	135	149	189	194	224	200	196	160	114	98	158	0.177
1985	3.71	29.037	102	106	101	145	146	197	216	212	162	148	118	110	147	0.165
1986	3.75	29,480	113	93	102	124	160	183	196	218	158	136	135	120	145	0.163
1987	3.80	29,864	112	109	110	150	158	185	184	198	185	150	109	107	147	0.164
1988	3.84	27,590	112	-	-	130	136	103	205	195	186	168	132	123	161	0.181
1989	3.88	27,896	112	109	127	168	156	183	214	202	189	156	155	146	160	0.179
	3.00	E1,070	112	107	161	100	120	103	619	202	107	170	133	140	100	U. 1/7

^{1/} Number of services

AVERAGE

109 108

173 149 126 115 145 0.162

116 141 156 183 202 193

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing date not available.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY.	LOS ANGEL	ES		WATER A	GENCY		GLENDAL	LE, CITY	OF			ORIGIN	OF WATE	R (in p	percent):	
CITY	GLENDALE			TYPE OF	AGENCY		MUNICIF	PAL WATE	R DEPAR	RTHENT						
SYSTEM #	ř		19043									SURFA	CE WATE	R	93	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	ES:				WELLS	AND SP	RINGS	. 7	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			90		ENT	IRE CIT	γ	• • • • • • •								
					ENT	IRE CIT	Y PLUS	OUTSIDE		. х		SOURCE	OF WATE	R (in s	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	ITY								
1980		139,060			ОТН	ER						PURCH	ASED		93	
		-											SUPPLIE			
					SERVICE	CONNEC	TIONS	/1							•	
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	RIAL:			GOVERNM	ENTAL:			
Meters	d	27.977		Meter	ed	3.675		Meter	ed	650			ed	430		
	ate	•			Rate				Rate				Rate	0		
		•			Kutters	•			Nacco .				nucu	•		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER 14	NTO SYST	EN CHI	LION G	ALLONS					
OF		TIONS /2				W		0131	VIII							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
															PERMIT	
1980	31,242	31,242	516.0	474.0	413.0	488.0	534.0	672.0	758.0	1018.0	752.0	800_0	609.0	677.0	7711.0	
1981	31,425		604.0					1007.0				745.0	696.0		9244.0	
1982	31,482	31,482										768.0			8171.0	
1983	31,436	31,436										654.0			8352.0	
1984	31,465	31,465										886.0			9876.0	
1985	31,500	31,500						974.0				804.0			9685.0	
1986	31,517	31,517													9696.0	
1987	31,622	•		597.0				1039.0				909.0			10079.0	
1988	32,148	32,114													10174.0	
1989	32,191														10511.0	
1990	32,778	32,732														
			14010			14010			10,510		71010	71010	17410			
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	TER USE	(gpcd)	/3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980		139,060	120	118	96	117	124	161	176	236	180	186	146	157	152	0.170
1981		143,172	136	129	116	149	182	234	242	240	218	168	162	143	177	0.198
1982		146,735	115	118	120	133	164	166	218	179	187	169	133	126	153	0.171
1983		149,819	125	119	111	129	153	189	210	205	196	141	132	120	153	0.171
1984		153,259	132	151	164	175	209	209	184	218	220	186	144	119	177	0.171
1985		156,735	125	121	143	172	174	207	235	218	193	165	140	136	169	0.190
1986		160,127	124	116	135	151	189	200	217	220	179	164	153	138	166	0.186
1987		163,978	132	130	131	182	179	211	199	215	206	179	127	127	168	0.189
1988		170,079	128	138	146	152	178	189	209	188	183	174	142	133	164	0.184
1989	5.40	173,684	124	128	137	166	175	185	209	202	192	163	162	147	166	0.186
1990		•				138	155	165	196							
1990	2.50	180,291	133	121	142	136	100	103	190	179	170	164	147	138	154	0.173
AVERAGE			127	126	131	151	171	193	208	209	193	169	144	135	163	0.183

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COLINTY	LOS ANGEL	FS		LIATED A	CENCY		IAS VID	CENES H	INICIDA	LATER	DIST	001014	OF LIATE	p /in -	ercent):	
	. CALABASAS				AGENCY						D131.	OKIGIN	OF MAIL	w (in p	ercent):	
			10225	TIPE OF	AGENCI		POBLIC	MATER D	ISIRICI			CUDEA	ICE WATE	0	100	
				YMET		CVCTE	M SERVE	e.					AND SP			
		#			00 41105		M SEKVE	3:				MELLS	AND SP	KINGS	U	
				JET IAN I			v									
DAU #		• • • • • • • • • • • • • • • • • • • •	. 90				Y Y PLUS					0011000				
												SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI									
		-			отн	ER	• • • • • • •	•••••	•••••	. Х			IASED			
1990	•••••	69,000										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNIM				
	d	-			ed				ed				ed			
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR OF		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	9,500	9,500	/5	-	-	-						-	-			
1981			-	-	-	-	-	-	-	-	-	-		-	-	
1982			-	-	-	-	-	-	-	_	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	_		
1984	12,224	12,224	256.0	304.0	374.0	359.0	534.0	523.0	643.0	611.0	547.0	487.0	402.0	371.0	5411.0	
1985	12,445	12,445	341.0	338.0	377.0	330.0	335.0	487.0	-	-	-	-	-	-		
1986	,		-		-	-	-	-	-	-	-		-	-		
1987			_	_	-	_	-	-	-		-	_	_	_		
1988	14,671	14,671	270.0	349.0	414.0	433.0	572.0	636.0	698.0	683.0	620.0	551.0	388.0	376.0	5990.0	
1989	15,982				432.0										6723.0	
1990	17,195				435.0											
													·			
YEAR	PERSONS	AVERAGE POPULA-					DEG CAD		ER LICE	(gpcd)/	7				ANNUALLY	
OF	CONNEC-	TION					PER CAP	TIN MAI	ER USE	(gpcu)/	3					-4
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	gpcd /3	afpc
1980	3.16	30,000	-	-	-	-	-	-	-	-	-	-	-	-	•	-
1981	3.24		-	•	-	-	-	-	-	-	-	-	-	•	-	-
1982	3.33		•	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	3.41		•	•	-	-	-	-	-	-	•	-	-	•	-	-
1984	3.50	42,782	193	245	282	280	403	407	485	461	426	367	313	280	347	0.388
1985	3.59	44,620	247	271	273	247	242	364	-	-	-	-	-		-	-
1986	3.67		-	-	-	-	-			-	-	-	-	-	-	-
1987	3.76		-	-	-	-	-	-		-	-	-	-	-	•	-
1988	3.84	56,363	155	214	237	256	327	376	399	391	367	315	229	215	291	0.326
1989	3.93	62,766	174	177	222	295	310	355	396	389	354	301	281	260	293	0.329
1990	4.01	69,000	180	167	203	217	265	308	362	339	328	290	250	219	261	0.293
AVERAGE			190	215	243	259	309	362	411	395	369	318	268	243	298	0.334
												2.3				

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ efpca - acre-feet per capita annually

fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

COUNTY	LOS ANGEL	ES		WATER A	GENCY		SAN FER	NANDO,	CITY OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	SAN FERNA	NDO		TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	TMENT						
SYSTEM #			19143									SURFA	CE WATE	R	25	
HYDROLOG	IC REGION		SOUTH C	OAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	75	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	90					OUTSIDE		X		SUI IBLE	OF WATE	P (in n	ercent):	
CITY CENS	SUS POPUL	ATION						ΤΥ				ooone.	O, W.I.L.	K (III P	ci ceit.	
												PLIDCH	ASED		25	
					0								SUPPL IE		75	
					SERVICE	CONNEC	TIONS	/1				-				
RESIDENTI	IAL:			COMMERC				INDUSTR	TAL :			GOVERNM	FNTAI +			
	d	4,117			ed	392			ed	343			ed	34		
	ate	•			Rate	0			Rate	0			Rate	0		
, eac ne		•				·				•			nate	٠		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	4,727	4,727	/5					-	129.0	113.0	48.0	104.0	90.0	83.0		
1981	4,727	4,727	76.0	52.0	62.0	81.0	98.0	127.0			-			-		
1982	4,735	4,735	-	-	-	-	-	-	123.0	128.0	101.0	100.0	79.0	43.0		
1983	4,735	4,735	75.0	64.0	76.0	76.0	78.0	84.0	127.0	117.0	110.0	92.0	65.0	77.0	1041.0	
1984	4,820	4,820	86.0	87.0	101.0	105.0	129.0	124.0	145.0	141.0	123.0	109.0	89.0	84.0	1323.0	
1985	4.824	4.824	88.0	81.0	90.0	106.0	76.0	70.0	100.0	143.0	114.0	113.0	93.0	93.0	1167.0	
1986	4,800	4,800	98.0	82.0	96.0	103.0	125.0	134.0	90.0	95.0	79.0	109.0	105.0	101.0	1217.0	
1987	4,910	4,910	99.0	88.0	102.0	122.0	128.0	117.0	132.0	142.0	142.0	108.0	193.0	81.0	1454.0	
1988	4,848	4,848	88.0	88.0	106.0			126.0	134.0	130.0	117.0	109.0	98.0	88.0	1296.0	
1989	4,848	4,848	86.0	75.0	92.0	111.0		117.0	133.0	131.0	117.0	105.0	94.0	104.0	1276.0	
1990	4,996	4,996	84.0	75.0	67.0			118.0				110.0	96.0		1231.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													good	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.75	17,731	-	-	-	-	-	-	235	206	90	189	169	151		-
1981	3.83	18,094	135	103	111	149	175	234	-				•	•	-	•
1982	3.90	18,489		-	-	-	-	-	215	223	182	174	142	75	-	-
1983	3.98	18,853	128	121	130	134	133	149	217	200	194	157	115	132	151	0.169
1984	4.06	19,562	142	153	167	179	213	211	239	233	210	180	152	139	185	0.208
1985	4.14	19,949	142	145	146	177	123	117	162	231	190	183	155	150	160	0.180
1986	4.21	20,218	156	145	153	170	199	221	144	152	130	174	173	161	165	0.185
4000	4.29	21,059	152	149	156	193	196	185	202	218	225	165	305	124	189	0.212
1987	4 77	21,166	134	143	162	156	172	198	204	198	184	166	154	134	168	0.188
1987	4.37															
	4.44	21,538	129	124	138	172	166	181	199	196	181	157	145	156	162	0.182
1988		•	129 120	124 119	138 96	172 177	166 150	181 174	199 183	196 173	181 173	157 157	145 142	156 129	162 149	0.182

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL	ES			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	ALHAMBRA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
												SURFA	CE WATE	R	21	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	79	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #		• • • • • • • • • • • • • • • • • • • •	92				Y Y PLUS			X		en ibre	OE UATE	D (in n	ercent):	
CITY CEN	SUS POPUL	ATTON					THE CI					SUCKLE	OI MAIL	K (III P	ercant).	
							1112 61					DIDCH	ASED		21	
					Oin	ER			• • • • • • •					D	79	
1990		02,100			SERVICE	CONNEC	TIONS	/1				JELI	307 F E I E		"	
DECIDENT	TAL			COMMERC		COMMEC		INDUSTR	TAL .			GOVERNM	CHTAL .			
RESIDENT		1/ 557			ed	998			ed	275			ed	176		
	d	-								0			Rate			
Flat R	ate	0		Flat	Rate	U		riet	Rate	U		rtet	Kate	U		
YEAR OF	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	15,812	15 812	266.0	210 0	228.0	287 N	285 በ	358 O	400 n	307 n	337 n	332 n	304.0	208 N	3711 n	
1981	15,810	15,810			252.0							315.0		273.0		
1982	15,841	15,841							489.0			410.0	333.0	323.0		
1983	15,810	15,810	269.0	228.0	-		334.0					315.0	269.0		3788.0	
1984	15,800	15,800	278.0	295.0	343.0			413.0			427.0	389.0	299.0		4453.0	
1985	15,790	15,790	280.0	263.0					487.0			365.0			4338.0	
1986	15,775		312.0	251.0			418.0				382.0				4361.0	
1987	15,700	15,775 15,700	322.0				412.0				417.0	368.0	295.0		4446.0	
1988	15,730	15,730	303.0				398.0				403.0	391.0		309.0	4429.0	
1989	15,742	15,730	306.0		323.0											
1990	15,718				351.0											
VEAR		AVERAGE					DED 040	TYA 1147	ED 1105	/ 1 \ /	7					
YEAR	PER	POPULA-					PER CAP	TIA WAI	ER USE	(gpca)/	3				ANNUALLY	
OF	CONNEC-	TION								****	250		11011	DEC	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.09	64,615	133	112	114	148	142	185	204	198	174	166	157	149	157	0.176
1981	4.20	66,405	129	127	122	141	168	209	217	212	193	153	154	133	163	0.183
1982	4.31	68,337	148	155	153	166	180	194	231	231	198	194	162	152	181	0.202
1983	4.43	70,001	124	116	113	130	154	172	201	192	184	145	128	118	148	0.166
1984	4.54	71,753	125	142	154	163	194	192	220	210	198	175	139	121	170	0.190
1985	4.66	73,504	123	128	132	164	170	199	214	204	176	160	139	130	162	0.181
1986	4.77	75,228	134	119	128	151	179	191	199	207	169	143	144	139	159	0.178
1987	4.88	76,656	136	135	130	170	173	194	185	193	181	155	128	125	159	0.178
1988	5.00	78,591	124	131	140	144	163	179	188	182	171	160	137	127	154	0.173
1989	5.11	80,441	123	119	130	155	162	176	192	186	171	155	153	146	156	0.175
1990	5.22	82,106	132	128	138	138	147	162	179	170	166	155	141	134	149	0.167
AVERAGE			130	128	132	152	167	187	203	199	180	160	144	134	160	0.179
								,								

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY.	LOS ANGEL	.ES		WATER A	GENCY		ARCADIA	, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	ARCADIA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	ř		. 19003									SURFA	CE WATE	R	4	
HYDROLOG	SIC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	96	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #		• • • • • • • •	. 92		ENT	IRE CIT	γ			x						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		45,994			OTH	ER						PURCH	ASED		4	
1990		48,290										SELF	SUPPL IE	D	96	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	:JAI:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	11,838		Meter	ed	799		Meter	ed	NA		Meter	ed	337		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (HIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	12,786				188.0											
1981	12,751	12,751			262.0			675.0				406.0	364.0		5330.0	
1982	12,847	•			242.0						444.0	427.0			4435.0	
1983	12,859	12,840			224.0				620.0	515.0		357.0	277.0	233.0	4418.0	
1984	12,863				413.0				709.0		575.0	487.0	315.0	233.0	5610.0	
1985	12,907				342.0						546.0	462.0	331.0		5658.0	
1986	12,908				315.0			611.0			521.0	427.0	384.0	332.0	5546.0	
1987	13,443	13,443	309.0	285.0	319.0	499.0	537.0	582.0	629.0	662.0	589.0	453.0	298.0	286.0	5448.0	
1988	12,940				428.0		556.0	619.0	683.0	646.0	571.0	558.0	368.0	325.0	5795.0	
1989	12,955	•			387.0				695.0				454.0		5884.0	
1990	12,974	12,974	315.0	267.0	385.0	360.0	471.0	534.0	669.0	607.0	581.0	527.0	441.0	394.0	5551.0	
	PERSONS	AVERAGE										•				
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								101					good	efpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.60	45,994	215	160	132	160	207	242	343	360	461	309	369	236	267	0.299
1981	3.61	46,027	198	190	184	281	370	489	481	467	414	285	264	178	317	0.355
1982	3.62	46,534	134	185	168	221	265	302	433	423	318	296	206	177	261	0.292
1983	3.63	46,738	196	194	155	198	288	324	428	355	359	246	198	161	259	0.290
1984	3.65	46,913	191	259	284	326	413	400	488	430	409	335	224	160	328	0.367
1985	3.66	47,235	178	209	234	323	341	492	534	475	385	316	234	211	328	0.368
1986	3.67	47,400	235	175	214	295	389	430	465	479	366	291	270	226	321	0.359
1987	3.68	49,532	201	205	208	336	350	392	410	431	396	295	201	186	301	0.338
1988	3.70	47,840	198	241	289	288	375	431	461	436	398	376	256	219	332	0.372
1989	3.71	48,058	205	201	260	354	369	406	467	438	395	330	315	277	335	0.376
1990	3.72	48,290	210	197	257	248	315	369	447	405	401	352	304	263	315	0.353
AVERAGE			197	201	217	275	335	389	450	427	391	312	258	209	306	0.343

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL								NIUAN W	NIER CU	T ARI	OKIUIN	OF MAIL	c (in p	ercent):	
	BALDWIN H			TYPE OF	AGENCY	• • • • • • •	INVEST	OR OWNED				CUREA	CE WATE		28	
				TOACT		CVCTE	M SERVI	-0-					AND SP		72	
		#			OC ANCE		M SERVI	23:				MELLS	AND SP	KINGS	12	
	SUBAKEA		92	LIIAN L			v									
UNU #	********		72					CUTSIDE				SUIDLE	OF WATE	e (in n	ercent):	
CITY CEN	ISUS POPUL	ATTON						١٣٠٠٠٠				SOUNCE	OF MAIL	c (III p	ci cait).	
										х		PURCH	ASED		72	
					0111								SUPPLIE		28	
1,,,,,,		25,000			SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	5,793			ed	272			ed	2			ed	20		
	ate				Rate	0			Rate	0			Rate	0		
		•								·				•		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MILI	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,975	5,975	76.0	71.0	80.0	105.0	104.0	131.0	142.0	141.0	115.0	114.0	113.0	97.0	1289.0	
1981	5,956	5,956	87.0	79.0	82.0	97.0	120.0	142.0	148.0	146.0	127.0	104.0	117.0	88.0	1337.0	
1982	5,948	5,948	68.0	75.0	73.0	86.0	112.0	115.0	141.0	138.0	103.0	115.0	84.0	77.0	1187.0	
1983	5,970	5,970	87.0	65.0	71.0	80.0	102.0	119.0	138.0	129.0	121.0	95.0	80.0	75.0	1162.0	
1984	6,002	6,002	85.0	90.0	106.0	104.0	132.0	126.0	151.0	135.0	125.0	110.0	91.0	81.0	1336.0	
1985	6,073	6,073	85.0	77.0	89.0	109.0	123.0	137.0	152.0	142.0	121.0	111.0	99.0	91.0	1336.0	
1986	6,081	6,081	93.0	70.0	88.0	106.0	134.0		145.0	148.0	113.0	100.0	101.0	93.0	1326.0	
1987	6,071	6,071	90.0	82.0	92.0	119.0			138.0	140.0	126.0	108.0	87.0	88.0	1327.0	
1988	6,088	6,088	91.0	95.0	106.0	99.0	128.0	130.0	142.0	130.0	120.0	115.0	98.0	89.0	1343.0	
1989	6,087	6,087	91.0	77.0		114.0					112.0	110.0	107.0	103.0	1338.0	
1990	6,095	6,095	91.0	77.0	92.0	92.0	101.0	102.0	127.0	103.0	115.0	107.0	98.0	100.0	1205.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	-3.51	20,960	117	117	123	167	160	208	219	217	183	175	180	149	168	0.189
1981	3.58	21,325	132	132	124	152	182	222	224	221	199	157	183	133	172	0.192
1982	3.65	21,728	101	123	108	132	166	176	209	205	158	171	129	114	150	0.168
1983	3.73	22,241	126	104	103	120	148	178	200	187	181	138	120	109	143	0.160
1984	3.80	22,795	120	136	150	152	187	184	214	191	183	156	133	115	161	0.180
1985	3.87	23,505	117	117	122	155	169	194	209	195	172	152	140	125	156	0.174
1986	3.94	23,977	125	104	118	147	180	188	195	199	157	135	140	125	152	0.170
1987	4.02	24,378	119	120	122	163	168	178	183	185	172	143	119	116	149	0.167
		24,888	118	132	137	133	166	174	184	168	161	149	131	115	148	0.166
1988	4.09															
1988 1989	4.16	25,325	116	109	124	150	159	168	180	169	147	140	141	131	145	0.162

^{1/} Number of services

AVERAGE

119 118 122 144 165 182 198 188 169 150 140 123 152 0.170

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY		GELES		WATER A	GENCY		CALIFOR	NIA-AME	RICAN W	ATER CO	4PANY	ORIGIN	OF WATE	R (in p	ercent):	
	DUARTE			TYPE OF	AGENCY		INVESTO	R OWNED								
SYSTEM #			19186									SURFA	CE WATE	R	6	
HYDROLOG	IC REGION		SOUTH C	CAST		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	94	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			92		ENT:	IRE CIT	Υ									
					ENT:	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	MOITA			POR	TION OF	THE CI	τγ								
1980		16,766			ОТН	ER						PURCH	ASED		0	
1990		20,688										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,907		Meter	ed	525		Meter	ed	20		Meter	ed	169		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR OF		SERVICE			•	TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,126	5,976	85.0	82.0	88.0	137.0	120.0	200.0	246.0	222.0	204.0	175.0	157.0	122.0	1838.0	
1981	6,383	6,233	115.0	90.0	91.0	124.0	183.0	246.0	281.0	274.0	223.0	159.0	163.0	116.0	2065.0	
1982	6,460	6,310	92.0	119.0	99.0	125.0	165.0	170.0	244.0	261.0	179.0	165.0	114.0	105.0	1838.0	
1983	6,500	6.350	115.0	87.0	92.0	112.0	167.0	185.0	265.0	217.0	218.0	150.0	112.0	100.0	1820.0	
1984	6,596	6,446			165.0					268.0				102.0	2331.0	
1985	6,639	6,489	110.0	103.0	127.0	170.0	199.0	241.0	260.0	253.0	199.0	171.0	139.0	115.0	2087.0	
1986	6,799	•	138.0	99.0				240.0	267.0	291.0	191.0	162.0		130.0	2183.0	
1987	6,799	•		118.0							227.0				2134.0	
1988	6,824	6,674			162.0										2223.0	
1989	6,826	•			146.0											
1990	6,875	6,725	147.0	116.0	150.0	161.0	196.0	204.0	281.0	252.0	242.0	215.0	190.0	169.0	2323.0	
	DEDCOMS	AVERAGE										-				
YEAR	PER	POPULA-					PER CAP	ITA WAT	FR USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								13511					gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.81	17,187	160	165	165	266	225	388	462	417	396	328	304	229	293	0.328
1981	2.83	18,081	205	178	162	229	326	454	501	489	411	284	301	207	313	0.350
1982	2.86	18,474	161	230	173	226	288	307	426	456	323	288	206	183	273	0.305
1983	2.89	18,764	198	166	158	199	287	329	456	373	387	258	199	172	266	0.298
1984	2,91	19,220	200	264	277	335	420	383	514	450	385	361	213	171	332	0.372
1985	2.94	19,525	182	188	210	290	329	411	430	418	340	283	237	190	293	0.328
1986	2.97	20,179	221	175	198	269	344	396	427	465	316	259	269	208	296	0.332
1987	3.00	20,363	189	207	200	321	341	355	385	409	372	276	203	185	287	0.322
1988	3.02	20,623	189	214	253	257	335	378	425	379	348	318	223	211	295	0.331
1989	3.05	20,814	184	184	226	317	312	368	440	434	348	310	295	246	306	0.343
1990	3.08	21,149	224	196	229	254	299	322	429	384	381	328	299	258	301	0.337
AVERAGE			192	197	205	269	319	372	445	425	364	299	250	206	296	0.331

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	LOS ANGEL	.ES		WATER A	GENCY		CALIFOR	NIA AME	RICAN W	ATER CO	MPANY	ORIGIN	OF WATE	R (in p	ercent):	
	SAN MARIN				AGENCY											
SYSTEM I	ř		. 19139									SURFA	CE WATE	R	90	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	10	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			. 92		ENT	IRE CIT	γ			х						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	MOITA			POR	TION OF	THE CI	TY	• • • • • • •							
		-			ОТН	ER	• • • • • • •	• • • • • • •	• • • • • •			PURCH	ASED		90	
1990	• • • • • • • • • • • • • • • • • • • •	48,000										SELF	SUPPLIE	D	10	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	:d	-			ed				ed				ed			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL M	ATED IN	TO SYST	EM /MTI	I ION GA	LLONS					
OF		TIONS /2				. Jina W	In	.5 5,51	LIT (FIEL	an						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	13,000	13,000	/5	-	-	-	-		-	-	-	-	-		-	
1981			-	-	-	-	-	-	-	-		-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-		-	
1984	13,670	13,670	266.0	230.0	295.0	314.0	366.0	428.0	559.0	496.0	499.0	387.0	279.0	235.0	4354.0	
1985	12,667	12,667	250.0	242.0	299.0	370.0	414.0	502.0	-	-	-	-	-	-	-	
1986	13,573	13,573	292.0	214.0	268.0	337.0	415.0	429.0	460.0	503.0	354.0	336.0	331.0	280.0	4219.0	
1987	13,586	13,586	262.0	239.0	246.0	328.0	340.0	319.0	435.0	480.0	404.0	339.0	255.0	230.0	3877.0	
1988	13,629	13,269	271.0	277.0	342.0	322.0	432.0	462.0	523.0	460.0	432.0	397.0	303.0	267.0	4488.0	
1989	13,650	13,650	260.0	231.0	299.0	392.0	390.0	432.0	499.0	509.0	434.0	420.0	383.0	344.0	4593.0	
1990	14,000	14,000	-	-	-	-	•	-	•	•	-	-	-	-	-	
	DEDGONG	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								(Speciff	-				good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.23	42,000	-	•	•	•	-	-	-	-	-	-	-	-	•	-
1981	3.25		-	•	-	•	-	-	-	-	-	-	-	-	-	-
1982	3.27		-	•	-	•	-	-	-	•	-	-	-	-	-	•
1983	3.29		-	-	-	-	-		-	-				-	•	-
1984	3.31	45,246	190	175	210	231	261	315	399	354	368	276	206	168	264	0.295
1985	3.33	42,177	191	205	229	292	317	397	-	-	-	-	-	***	-	-
1986	3.35	45,462	207	168	190	247	294	315	326	357	260	238	243	199	254	0.285
1987	3.37	45,774	185	186	173	239	240	232	307	338	294	239	186	162	232	0.260
1988	3.39	46,189	189	207	239	232	302	333	365	321	312	277	219	186	266	0.298
1989 1990	3.41	46,530	180	177	207	281	270	309	346	353	311	291	274	238	270	0.303
1770	3.43	48,000	•	•	•	•	•	-	-	-	-	-	-	-		•
AVERAGE			190	186	208	254	281	317	349	345	309	264	225	191	257	0.288
			170	100	200	2.74	201	311	377	3-7	307	204	رعد	171	231	0.200

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies:

^{3/} gpcd - gallons per capita daily

^{5/} Missing data unavailable

WOMIII		FS		WATER A	GENCY		CALTEON	NIA MAT	FR SERV	ICE COM	PANY	ORIGIN	OF WATE	e (in n	ercent):	
CITYE	OS ANGELI							R OWNED	SERF		2001		- MP(1E	. tin p		
SYSTEM #.			19036									SURFA	CE WATE	R	79	
HYDROLOGI				CAST		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	21	
PLANNING					OS ANGE										-	
DAU #							Y									
DIW # 111								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CENS	als popul	ATTON						ΤΥ						. (111 p		
										х		DIRCH	ASED		79	
					0111			•••••	•••••	^				D	21	
1770	*******	122,200			SERVICE	CONNEC	TIONS	/1				OLLI	001111	•••••		
RESIDENTI	IAI •			COMMERC		COMME		INDUSTR	TAI -			GOVERNM	ENTAL .			
	1	20 101			ed	4 030			ed	281			ed	350		
	te				Rate	•			Rate	0			Rate			
rtat ka	ite	Ü		rtat	Rate	٠		rtat	Kate	U		rtat	Kale	0		
YEAR OF	ACTIVE S	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	25,259	25,259	487.0	453.0	488.0	533.0	551.0	624.0	723.0	678.0	585.0	600.0	529.0	487.0	6738.0	
1981	25,359							582.0							5335.0	
1982	25,459	25,459	460.0	426.0	472.0	494.0	548.0	573.0	664.0	680.0	591.0	585.0	482.0	470.0	6445.0	
1983	25,439	25,439	485.0	426.0	477.0	490.0	556.0	601.0	690.0	707.0	664.0	586.0	522.0	491.0	6695.0	
1984	25,489	25,489	492.0	531.0	623.0	611.0	739.0	714.0	740.0	735.0	699.0	595.0	487.0	443.0	7409.0	
1985	25,539	25.539	476.0	461.0	522.0	641.0	674.0	765.0	868.0	819.0	673.0	577.0	510.0	492.0	7478.0	
1986	25,589	25,589	565.0	482.0	557.0	606.0	686.0	695.0	746.0	778.0	663.0	631.0	585.0	579.0	7573.0	
1987	25,639	25,639	587.0	531.0	589.0	681.0	698.0	719.0	737.0	761.0	707.0	662.0	561.0	551.0	7784.0	
1988	25,624	25,624	560.0	559.0	645.0	620.0	689.0	714.0	738.0	735.0	693.0	676.0	593.0	583.0	7805.0	
1989	25,631	25.631	569.0	524.0	607.0	656.0	654.0	707.0	763.0	768.0	709.0	662.0	626.0	616.0	7861.0	
1990	25,673							688.0								
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980		110,130	143	142	143	161	161	189	212	199	177	176	160	143	168	0.188
1981		111,580	57	101	130	141	155	174	163	157	145	119	119	110	131	0.147
1982		113,038	131	135	135	146	156	169	189	194	174	167	142	134	156	0.175
1983		113,966	137	133	135	143	157	176	195	200	194	166	153	139	161	0.180
1984		115,209	138	159	174	177	207	207	207	206	202	167	141	124	176	0.197
1985		116,456	132	141	145	183	187	219	240	227	193	160	146	136	176	0.197
1986		117,708	155	146	153	172	188	197	204	213	188	173	166	159	176	0.197
1987		118,963	159	159	160	191	189	201	200	206	198	180	157	149	179	0.201
1988		119,918	151	161	174	172	185	198	199	198	193	182	165	157	178	0.200
1989		120,975	152	155	162	181	174	195	203	205	195	177	172	164	178	0.199
1990		122,200	156	158	166	165	176	188	196	195	189	184	164	154	174	0.195
1990		•														

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	ES		WATER A	GENCY		COVINA,	CITY O	F			ORIGIN	OF WATE	R (in p	ercent):	
C1TY	COVINA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	f		19127									SURFA	CE WATE	R	92	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	8	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			92		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		x		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		33,751			ОТН	ER						PURCH	ASED		92	
1990		43,207										SELF	SUPPLIE	D	8	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,527		Meter	ed	911		Meter	ed	548		Meter	ed	NA		
	ate	•		Flat	Rate			Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	7,906	6.834	129.7	117.2	136.2	195.7	179.1	238.0	265.4	246.2	228.5	191.6	267.7	146.4	2341.7	
1981	8,100	7,000			137.8											
1982	8,364														2058.3	
1983	8,447	7,252	136.6		109.6			190.6								
1984	8,569	7,359	139.1	70.4		194.5	243.0		294.5		246.5	216.1		121.2		
1985	8,697	7,481			149.1			253.5	305.5						2418.2	
1986	8,720	7,499	158.3	120.9	144.2					314.1			170.4			
1987	8,745	7,875			143.8										2405.8	
1988	8,935	7,966			276.2										2510.2	
1989	8,104				168.1											
1990	8,197	•			162.2											
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	TAW ATI	ED INCE	(aned)/	3				ANNUALLY	
OF	CONNEC-	TION					rek Gr	11/4 18/11	ER USE	(gpcu//	,				gpcd	afpci
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	4.94	39,045	107	104	113	167	148	203	219	203	195	158	229	121	164	0.184
1981	5.04	40,791	104	112	109	140	159	207	217	202	177	151	139	118	153	0.171
1982	5.13	42,933	92	90	93	117	129	165	182	185	150	146	127	99	131	0.147
1983	5.23	44,180	100	81	80	97	121	144	177	166	166	115	97	82	119	0.133
1984	5.33	45,651	98	53	130	142	172	173	208	189	180	153	106	86	142	0.159
1985	5.42	47,178	91	98	102	137	147	179	209	195	166	143	111	104	140	0.157
1986	5.52	48,151	106	90	97	130	176	190	203	210	180	120	118	100	144	0.161
1987	5.62	49,139	93	100	94	137	146	172	177	190	177	139	95	87	134	0.150
1988	5.72	51,075	88	99	174	121	136	175	172	161	150	131	108	95	135	0.151
1989	5.81	47,112	95	97		142	155	199	226	213	176	146	142	118	152	0.171
1990	5.91	48,450	96	96	108	113	129	156	197	176	164	141	124	109	134	0.150
AVERAGE			97	93	110	131	147	178	199	190	171	140	127	102	141	0.158
			,,	/3	1.0	131	1-1		(,,,	170		140	16.7	10%	171	3.130

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	ES		WATER A	GENCY		GLENDOR	A, CITY	OF			ORIGIN (OF WATE	R (in p	ercent):	
CITY	GLENDORA			TYPE OF	AGENCY		MUNICIP.	AL WATE	R DEPAR	TMENT						
SYSTEM #			19044									SURFA	CE WATE	R	34	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	66	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			92		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE (OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		38,654			OTH	ER						PURCH	ASED		34	
1990		47,828										SELF :	SUPPLIE	D	66	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	12,130		Meter	ed	615		Meter	ed	101		Meter	ed	2		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	-
1980	11,875	10,675	208.0	236.0	191.0	316.0	300.0	270.0	650.0	465.0	343.0	305.0	344.0	243.0	3871.0	
1981	11,995	10,956	236.0	193.0	244.0	267.0	350.0	473.0	489.0	491.0	390.0	261.0	271.0	215.0	3880.0	
1982	12,033	10,993	199.0	172.0	176.0	204.0	275.0	291.0	440.0	473.0	328.0	287.0	192.0	185.0	3222.0	
1983	11,984	10,948	206.0	168.0	168.0	242.0	279.0	309.0	489.0	368.0	396.0	265.0	215.0	177.0	3282.0	
1984	12,093	11,059	213.0	230.0	293.0	341.0	472.0	415.0	569.0	490.0	437.0	326.0	201.0	159.0	4146.0	
1985	12,500	11,466	184.0	205.0	227.0	323.0	374.0	454.0	525.0	437.0	419.0	300.0	232.0	197.0	3877.0	
1986	12,774	11,740	230.0	158.0	209.0	316.0	431.0	440.0	534.0	567.0	325.0	257.0	266.0	172.0	3905.0	
1987	13,000	12,565	250.0	228.0	229.0	363.0	423.0	461.0	465.0	523.0	456.0	362.0	192.0	204.0	4156.0	
1988	13,000	12,570	210.0	196.0	324.0	330.0	364.0	447.0	568.0	414.0	416.0	360.0	247.0	219.0	4095.0	
1989	12,734	12,308	235.0	197.0	268.0	380.0	403.0	424.0	535.0	509.0	402.0	389.0	355.0	337.0	4434.0	
1990	12,848	12,422	234.0	210.0	276.0	248.0	353.0	391.0	534.0	495.0	484.0	409.0	435.0	294.0	4363.0	
	DEDOGUA	AVERACE														
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	ITA WAT	ED HEE	(ancd)	73				ANNUALLY	
OF.	CONNEC-	TION					PER CAP	TIM MAI	EK USE	(gpcu)/	3				good	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
KECORD	1104	SERVED	JAN	160	LBAK	AFR	nnı	JOH	300	AUG	JLI				,,,	
1980	3.62	42,999	156	189	143	245	225	209	488	349	266	229	267	182	247	0.276
1981	3.64	43,709	174	158	180	204	258	361	361	362	297	193	207	159	243	0.272
1982	3.67	44,123	145	139	129	154	201	220	322	346	248	210	145	135	200	0.224
1983	3.69	44,218	150	136	123	182	204	233	357	268	299	193	162	129	203	0.228
1984	3.71	44,898	153	177	211	253	339	308	409	352	324	234	149	114	253	0.283
1985	3.74	46,695	127	157	157	231	258	324	363	302	299	207	166	136	227	0.255
1986	3.76	48,012	155	118	140	219	290	305	359	381	226	173	185	116	223	0.250
1987	3.78	49,159	164	166	150	246	278	313	305	343	309	238	130	134	232	0.259
1987	3.80	•	137	137	211	222	237	301	370	270	280	235	166	143	227	0.254
		49,457		144	177	260	267	290	354	337	275	257	243	223	249	0.279
1989 1990	3.83	48,737	156 153	152	180	167	230	263	348	323	326	267	293	192	242	0.271
1990	3.85	49,468	153	132	100	10/	230	203	340	عد	320	201	273		242	
AVERAGE			152	152	164	217	253	284	367	330	286	221	192	151	231	0.259

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL	ES						NE, CITY		7145117		ORIGIN	OF WATE	R (in p	ercent):	
	LA VERNE			TYPE OF	AGENCY		MUNICII	PAL WATE	R DEPAR	TMENT						
	f												CE WATE			
	IC REGION						M SERVI	ES:				WELLS	AND SP	RINGS	22	
	SUBAREA			CITAN L												
DAU #	•••••	•••••	92									AC ID COT				
								CUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL							ITY				bi maii			700	
	•••••	•			OIN	EK		•••••	• • • • • • •				ASED SUPPLIE			
1990.	•••••	31,755			SERVICE	COMME	TIONS	.4				SELF	SUPPLIE	y	22	
				COMMERC		CONNEC	110N2	INDUSTR	7.81 .			GOVERNM	ENTAL -			
RESIDENT		7 750			ed	252			ed	34			ed	31		
	d late	•			Rate				Rate				Rate	0		
Flat	ate	U		rtat	Kate	U		rtat	Kate			rtat	Kate	U		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,863	6,174	/5	·		-		-	327.0	280.0	236.0	214.0	175.0	148.0		
1981	6,863	6,174	126.0	97.0	112.0	157.0	185.0	291.0	319.0	310.0	275.0	193.0	138.0	121.0	2324.0	
1982	6,871	6,175	96.0	92.0	101.0	132.0	189.0	204.0	294.0	301.0	240.0	212.0	144.0	127.0	2132.0	
1983	6,989	6,243	129.0	96.0	102.0	139.0	220.0	228.0	176.0	166.0	184.0	175.0	124.0	73.0	1812.0	
1984	7,217	6,486	99.0	130.0	46.0	209.0	60.0	282.0	322.0	310.0	274.0	232.0	130.0	110.0	2204.0	
1985	7,552	6,788	121.0	121.0	143.0	208.0	248.0	303.0	353.0	332.0	253.0	220.0	145.0	142.0	2589.0	
1986	7,552	6,788	157.0	123.0	137.0	198.0	268.0	304.0	335.0	360.0	242.0	188.0	174.0	156.0	2642.0	
1987	7,891	7,130	144.0	133.0	146.0	241.0	286.0	311.0	327.0	335.0	292.0	222.0	144.0	134.0	2715.0	
1988	8,019	7,249	132.0	189.0	194.0	198.0	268.0	294.0	330.0	311.0	261.0	245.0	154.0	148.0	2724.0	
1989	8,020	7,527	127.0	113.0	171.0	227.0	255.0	318.0	336.0	315.0	270.0	226.0	205.0	182.0	2745.0	
1990	7,907	7,562	134.0	118.0	173.0	159.0	226.0	258.0	333.0	318.0	280.0	251.0	191.0	163.0	2604.0	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAL	PITA WAT	ED IKE	(apped)/	73				ANNUALLY	
OF	CONNEC-	TION					rek Gri	TIN MAI	LK OJL	(gpcu//	,				gpcd	afpc
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.29	29,457	-	-	-	-	-	-	358	307	267	234	198	162	-	•
1981	4.28	29,393	138	118	123	178	203	330	350	340	312	212	156	133	217	0.243
1982	4.27	29,364	105	112	111	150	208	232	323	331	272	233	163	140	199	0.223
1983	4.26	29,803	140	115	110	155	238	255	190	180	206	189	139	79	167	0.187
1984	4.25	30,708	104	146	48	227	63	306	338	326	297	244	141	116	197	0.220
1985	4.25	32,063	122	135	144	216	250	315	355	334	263	221	151	143	221	0.248
1986	4.24	31,992	158	137	138	206	270	317	338	363	252	190	181	157	226	0.253
1987	4.23	33,355	139	142	141	241	277	311	316	324	292	215	144	130	223	0.250
1988	4.22	33,821	126	193	185	195	256	290	315	297	257	234	152	141	221	0.247
1989	4.21	33,751	121	120	163	224	244	314	321	301	267	216	202	174	223	0.250
1990	4.20	33,202	130	127	168	160	220	259	324	309	281	244	192	158	215	0.241

^{1/} Number of services

128 134 133 195 223 293 321 310 270 221 165 139 211 0.236

^{2/} Excludes services for agriculture, fire hydranta, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COLINTY	LOS ANGELI	ES		MATER AC	SENCY		INCOLI	N AVE WAT	ER COMP	ANY		ORIGIN C	F WATER	(in pe	ercent):	
CITY			1	TYPE OF	AGENCY.	I	NVESTO	OR OWNED								
												SURFAC	E WATER		75	
				DAST		SYSTEM	SERVI	ES:				WELLS	AND SPE	INGS.	25	
		#			OS ANGEL										_	
			92							x						
D/10 #								CUTSIDE.		-		SOLIROF O	F WATER	(in n	ercent):	
CITY CEN	SUS POPUL	ATTON 7/						ITY				-	, m.,	, , , , , ,	i curicy:	
												DUDCH	SED		75	
		-			OTAL								SUPPLIE		25	
1990	• • • • • • • • •	10,000			SERV1 CE	CONNECT	TONE	/1				SCLF 3	OFFLICE		23	
	***			COMMERC		COMMEC	TONS	INDUSTRI	AL -			GOVERNME	MTAL .			
RESIDENT		7 004	,			01								40		
	d	3,981			ed	94			d	NA			d	19		
Flat R	ate	0		Flat	Rate	0		Flat F	ate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE			1	OTAL W	TER II	NTO SYSTE	M (MILI	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,061	4,061	/5				-			· · · · · · · · · · · · · · · · · · ·	-		-			
1981	4,061	4,061	48.0	41.0	42.0	53.0	60.0		98.0	95.0	77.0	56.0	55.0	46.0	757.0	
1982	4,033	4,033	41.0	38.0	39.0	44.0	52.0		85.0	87.0	66.0	56.0	42.0	42.0	648.0	
1983	4,027	4,027	43.0	35.0	38.0	40.0	53.0		83.0	75.0	65.0	45.0	42.0	40.0	618.0	
1984	•	4,036	41.0	48.0	56.0	60.0	83.0		95.0	85.0	74.0	63.0	45.0	40.0	766.0	
	4,036	•	41.0	39.0	44.0	59.0	66.0		97.0	92.0	66.0	57.0	47.0	45.0	736.0	
1985	4,037	4,037		36.0	43.0	50.0	73.0		84.0	93.0	62.0	53.0	50.0	45.0	714.0	
1986	4,073	4,073	46.0						77.0		73.0	61.0	42.0	43.0	709.0	
1987	4,069	4,069	45.0	41.0	43.0	62.0	64.0			81.0						
1988	4,063	4,063	46.0	48.0	54.0	53.0	64.0		86.0	78.0	68.0	65.0	48.0	47.0	734.0	
1989	4,086	4,086	44.0	41.0	53.0	65.0	65.0		90.0	85.0	73.0	59.0	58.0	56.0	761.0	
1990	4,094	4,094	45.0	39.0	48.0	49.0	58.0	67.0	86.0	77.0	72.0	68.0	55.0	54.0	718.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CA	PITA WATE	ER USE	(gpcd)/3	5			-	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000	7.00	44 000														
1980	3.94	16,000	-								444	113	115	93	130	0.145
1981	3.94	15,987	97	92	85	111	121		198	192	161		115	85		0.14
1982	3.93	15,864	83	86	79	92	106		173	177	139	114			112	
1983	3.93	15,828	88	79	77	84	108		169	153	137	92	88	82	107	0.120
1984	3.93	15,850	83	104	114	126	169		193	173	156	128	95	81	132	0.14
1985	3.92	15,841	83	88	90	124	134		198	187	139	116	99	92	127	0.14
1986	3.92	15,970	93	81	87	104	147		170	188	129	107	104	91	122	0.13
1987	3.92	15,941	91	92	87	130	130		156	164	153	123	88	87	122	0.13
1988	3.91	15,905	93	104	110	111	130	161	174	158	143	132	101	95	126	0.14
1989	3.91	15,982	89	92	107	136	131	150	182	172	152	119	121	113	130	0.14
1990	3.91	16,000	91	87	97	102	117	140	173	155	150	137	115	109	123	0.13

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	.ES		WATER A	GENCY		MONROVI	A, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	MONROVIA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #	f		19090									SURFA	CE WATE	R	0	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #	•••••		92				Y Y PLUS			X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		30,531			OTH	ER						PURCH	ASED		0	
														D		
.,,,,,,,					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC				INDUSTR	TAL :			GOVERNM	ENTAL :			
	d	7,994			ed	641			ed	NA			ed	NA		
	ate				Rate				Rate				Rate			
rtat K	ate			rtat	Nate	·		rtat	Kate	·		rtat	Rate	U		
YEAR OF		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	8,675	8,675	132.0	121.0	135.0	183.0	169.0	254.0	314.0	290.0	237.0	222.0	198.0	166.0	2421.0	
1981	8,720	8,720	156.0	135.0	135.0	170.0	214.0	298.0	305.0	299.0	253.0	190.0	187.0	146.0	2488.0	
1982	8,759	8,759	125.0	122.0	134.0	149.0	176.0	206.0	290.0	284.0	216.0	202.0	150.0	139.0	2193.0	
1983	9,135	9,135	166.0	125.0	160.0	191.0	258.0	264.0	301.0	315.0	233.0	196.0	188.0	181.0	2578.0	
1984	9,027	9,027	148.0	168.0	201.0	214.0	282.0	262.0	327.0	285.0	260.0	222.0	156.0	136.0	2661.0	
1985	9,027	9,027	142.0		163.0								163.0	159.0	2584.0	
1986	9,176	9,176	172.0		177.0						233.0	196.0	188.0	181.0	2701.0	
1987	9,029	9,029	172.0		177.0									166.0		
1988	9,210	9,210	161.0	176.0			250.0				260.0	249.0			2749.0	
1989	8.845	8.845		141.0												
1990	8,645	-,		152.0												
	DEBGUNG	AVERAGE			·											
YEAR	PER	POPULA-					PER CAP	ITA LIAT	ER USF	(appd)/	3				ANNUALLY	
OF	CONNEC-	TION					. a.r. urv			· Shore//	_				good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.52	30,531	139	137	143	200	179	277	332	306	259	235	216	175	217	0.243
1981	3.58	31,228	161	154	139	181	221	318	315	309	270	196	200	151	218	0.244
1982	3.64	31,908	126	137	135	156	178	215	293	287	226	204	157	141	188	0.211
1983	3.70	33,841	158	132	153	188	246	260	287	300	230	187	185	173	209	0.234
1984	3.77	33,998	140	170	191	210	268	257	310	270	255	211	153	129	214	0.240
1985	3.83	34,556	133	146	152	203	219	272	303	296	229	196	157	148	205	0.229
1986	3.89	35,692	155	158	160	211	249	261	272	285	218	177	176	164	207	0.232
1987	3.95	35,678	156	158	160	210	248	260	265	275	264	207	155	150	209	0.234
1988	4.01	36,961	141	164	185	191	218	253	264	257	234	217	162	150	204	0.228
1989	4.07	36,042	149	140	160	213	222	246	299	266	249	216	207	183	213	0.238
1990	4.14	35,761	160	152	173	169	199	224	276	244	243	222	194	174	203	0.227
AVERAGE			147	150	159	194	222	258	292	281	243	206	178	158	208	0.233

^{1/} Number of services
3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	LOS ANGEL	ES			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	MONTEREY			TYPE OF	AGENCY	• • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	ŧ		19092									SURFA	CE WATE	R	0	
	SIC REGION						M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
DAU #			92		ENT	IRE CIT	γ	• • • • • • • •		х						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ								
1980		54,338			OTH	ER						PURCH	ASED		0	
1990		60,738										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	11,376		Meter	ed	703		Meter	ed	NA		Meter	ed	66		
Flat R	Rate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF DECODE		TIONS /2	144	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
RECORD	SYSTEM	CIII	JAN	PEB	MAK	APK	MAT	JUN	JUL	AUG	SEP	UCI	NOV	DEC	ANNUAL	
1980	12,127	12,127	184.0	171.0	183.0	224.0	225.0	287.0	320.0	314.0	267.0	268.0	243.0	221.0	2907.0	
1981	12,088	12,088	212.0	185.0	196.0	222.0	267.0	326.0	344.0	338.0	298.0	246.0	242.0	213.0	3089.0	
1982	12,133	12,133	201.0	189.0	202.0	222.0	253.0	266.0	335.0	340.0	277.0	273.0	215.0	209.0	2982.0	
1983	12,109	12,109	222.0	180.0			258.0								3001.0	
1984	12,110	•	224.0	243.0			342.0						238.0		3548.0	
1985	12,062		224.0	209.0			308.0								3496.0	
1986	12,059	12,059	253.0	206.0			337.0			389.0		288.0			3576.0	
1987	12,059	12,059	262.0	235.0			344.0				345.0				3673.0	
1988	12.047	12.047	252.0										271.0	263.0	3706.0	
1989	12,021	12,021	247.0												3738.0	
1990	12,145	•													3594.0	
			-													
YEAR	PERSONS	AVERAGE POPULA-					PER CAP	TTA LIAT	ED HEE	(anod)	7				ANNUALLY	
OF	CONNEC-	TION					PER CAP	TIN MAI	ER USE	(gpcu)/	3				gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
KECOKD		SEKVED	JAN			APR	PAI	JUN	JUL	AUG	3CP		MOA	DEC	/3	/4
1980	4.48	54,338	109	109	109	137	134	176	190	186	164	159	149	131	147	0.164
1981	4.53	54,792	125	121	115	135	157	198	203	199	181	145	147	125	154	0.173
1982	4.58	55,628	117	121	117	133	147	159	194	197	166	158	129	121	147	0.164
1983	4.64	56,148	128	114	116	126	148	169	194	185	180	144	129	121	146	0.164
1984	4.69	56,782	127	148	157	165	194	191	223	205	202	170	140	126	171	0.192
1985	4.74	57,185	126	131	138	165	174	202	222	211	185	171	146	137	167	0.188
1986	4.79	57,798	141	127	136	159	188	199	210	217	183	161	159	149	170	0.190
1987	4.84	58,426	145	144	145	185	190	201	200	210	197	170	143	137	172	0.193
1988	4.90	58,994	138	147	162	165	180	195	207	200	190	178	153	144	172	0.193
1989	4.95	59,492	134	131	150	175	181	194	210	203	189	168	164	163	172	0.193
1990	5.00	60,738	146	138	147	148	161	172	194	185	179	169	156	148	162	0.182
			130	130	136	154	169	187	204	200	183	163	147	137	162	0.181
AVERAGE			150	150	136	154	109	10/	204	200	103	103	147	13/	102	0.101

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL	ES		WATER A	GENCY		PASADEN	A, CITY	OF			ORIGIN	OF WATE	R (in p	percent):	
CITY	PASADENA			TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	THENT						
SYSTEM #			19124									SURFA	CE WATE	R	. 67	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	. 33	
LANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
AU #		• • • • • • • • • • • • • • • • • • • •	92		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	percent):	
ITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		119,374			OTH	ER	• • • • • • •		• • • • • •			PURCH	IASED	• • • • • • •	. 66	
1990	• • • • • • • • • • • • • • • • • • • •	131,590										SELF	SUPPLIE	D	. 34	
						CONNEC	TIONS									
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d			Meter	ed	NA.		Meter	ed	NA.			ed			
Flat R	ate	NA		Flat	Rate	NA.		Flat	Rate	. NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (M1L	LION G	ALLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	36,579	29,985		566.0	621.0	855.0	764.0	1148.0	1409_0	1252.0	1155.0	1046.0	942.0	754.0	11134.0	
1981	36,434	29,840	751.0												11716.0	
1982	36,415	29,875	531.0												9861.0	
1983	36,531	30,045													10870.0	
1984	36,593	30,101		851.0											13241.0	
1985	36,621	30,127	770.0	715.0											13020.0	
1986	36,621	30,221	769.0												12328.0	
1987	36,662	30,362	828.0	741.0	865.0	1145.0	1269.0	1199.0	1228.0	1519.0	1229.0	1051.0	834.0	765.0	12673.0	
1988	36,600	31,233	712.0	881.0	982.0	912.0	1081.0	1242.0	1449.0	1214.0	1266.0	1196.0	837.0	831.0	12603.0	
1989	36,708	-	760.0	701.0											13043.0	
1990	36,998	31,448	837.0	693.0	838.0	877.0	1089.0	1125.0	1484.0	1302.0	1230.0	1196.0	1025.0	933.0	12629.0	
YEAR	PERSONS	AVERAGE POPULA-					PER CAR	OTTA MAT	ER USE	(appd)	/3				ANNUALLY	
OF	CONNEC-	TION								13000					good	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000	7.00	4/E /3/	470	47/	470	40/	4/0	2/7	740		~//	070	247	4/-	200	0.33
1980 1981		145,626	138	134 159	138 151	196 185	169 212	263	312 317	277 279	264 305	232 195	216 199	167 159	209	0.23
1981		145,789	166	128		132	178	314 199	271	305	238	198	170	129	220 184	0.24
1983		146,453	117 162	157	143	158	201	241	271	312	257	198	167	145	202	0.20
1984	4.04	147,662 148,656	168	197	210	243	289	268	345	304	270	290	168	163	244	0.27
1985		149,514	166	171	174	243	250	288	377	308	290	234	193	160	239	0.26
1986		150,259	165	159	162	203	256	294	295	333	238	220	213	155	225	0.25
1987		151,172	177	175	185	252	271	264	262	324	271	224	184	163	230	0.25
1988		151,172	151	200	209	200	230	273	308	258	278	254	184	177	230	0.25
1989		152,854	160	164	184	259	231	273	315	304	267	234	224	190	234	0.26
1990		154,813	174	160	175	189	227	242	309	271	265	249	221	194	223	0.25
.,,,	7.10	12-7013	11-4	100		107		676	30)			/		174		
VERAGE			159	164	170	206	229	265	308	298	268	230	194	164	222	0.24

^{1/} Number of services

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	LOS ANGEL	ES			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
CITY				TYPE OF	AGENCY	•••••	MUNICIP	AL WATE	R DEPAR	TMENT						
														R		
	IC REGION						M SERVE	S:				WELLS	AND SP	RINGS	56	
PLANNING	SUBAREA	#		LITAN L												
DAU #	•••••		92									SOURCE	OF WATE	R (in p	ercent):	
CITY CENS	SUS POPUL	ATION			POR	TION OF	THE CI	TY						•		
1980		92,742										PURCH	ASED		44	
1990		131,723										SELF	SUPPLIE	D	56	
		•			SERVICE	CONNEC	TIONS	/1								
RESIDENTI	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metered	d	24.743		Meter	ed	1.960		Meter	ed	154		Meter	ed	295		
	ate	•			Rate	-			Rate				Rate			
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF RECORD	SYSTEM	TIONS /2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
					rank	AF K									ANNOAL	
1980	23,951	23,951	476.0	437.0	464.0	607.0	638.0	840.0	953.0	907.0	756.0	723.0	625.0	564.0	7990.0	
1981	24,759	24,759	533.0	470.0	503.0	596.0	733.0	951.0	986.0	988.0	856.0	691.0	616.0	530.0	8453.0	
1982	24,996	24,996	487.0	446.0	492.0	547.0	675.0	720.0	942.0	912.0	737.0	683.0	501.0	473.0	7615.0	
1983	25,115	25,115	498.0	415.0	446.0	504.0	657.0	725.0	899.0	840.0	769.0	608.0	491.0	452.0	7304.0	
1984	26,088	26,088	496.0	543.0	658.0	687.0	886.0	852.0	1019.0	978.0	878.0	770.0	562.0	480.0	8809.0	
1985	26,502	26,502	488.0	470.0	555.0	701.0	802.0	935.0	1050.0	1016.0	793.0	732.0	556.0	513.0	8611.0	
1986	26,543	26,543	558.0	460.0	539.0	658.0	863.0	935.0	1028.0	1066.0	833.0	662.0	628.0	570.0	8800.0	
1987	26,646	26,646	538.0	537.0	554.0	741.0	866.0	928.0	942.0	985.0	869.0	712.0	512.0	525.0	8709.0	
1988	26,757	26,757	542.0	634.0	713.0	686.0	839.0	956.0	1111.0	1062.0	916.0	811.0	615.0	568.0	9453.0	
1989	27,230	27,230	536.0	488.0	622.0	740.0	845.0	924.0	1089.0	1076.0	931.0	813.0	737.0	695.0	9496.0	
1990	27,412	27,412	599.0	520.0	661.0	681.0	779.0	807.0	1078.0	924.0	973.0	808.0	689.0	596.0	9115.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DER CAR	ITA WAT	ER LISE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION					I CK Gra		EK OOL	(Speciff	•				gpcd	efpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.87	92,742	166	162	161	218	222	302	331	315	272	251	225	196	236	0.26
1981	3.97	98,181	175	171	165	202	241	323	324	325	291	227	209	174	236	0.264
1982		101,453	155	157	156	180	215	237	300	290	242	217	165	150	206	0.230
1983		104,280	154	142	138	161	203	232	278	260	246	188	157	140	192	0.215
1984		110,754	144	169	192	207	258	256	297	285	264	224	169	140	218	0.244
1985		114,985	137	146	156	203	225	271	295	285	230	205	161	144	205	0.230
1986		117,640	153	140	148	186	237	265	282	292	236	182	178	156	205	0.230
		120,583	144	159	148	205	232	257	252	264	240	190	142	140	198	0.222
1987		123,582	141	177	186	185	219	258	290	277	247	212	166	148	210	0.235
1987		عالما الرابي المساء	171	111	100	103	617	20						140		
1988		128 307	135	134	154	102	212	2//0	27/	271	71.7	20%	101	175	203	
	4.71	128,307 131,723	135 147	136 141	156 162	192 172	212 191	240 204	274 264	271 226	242 246	204 198	191 174	175 146	203 190	0.227

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL							WATER				ORIGIN	OF WATE	R (in p	ercent):	
CITY	WEST COVI	NA, ET AL	. /5	TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #	f		19194									SURFA	CE WATE	R	100	
YDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
LANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
AU #		• • • • • • • • • • • • • • • • • • • •	92					CUTSIDE				eu ibre	OE WATE	e (in n	ercent):	
TTV CEN	ISUS POPUL	ATTON						ΤΥ				SOURCE	OF MAIL	K (III p	er cent):	
												DUDCU	ASED		100	
		-			OIN	EN				^			SUPPLIE			
1990	*******	31,004			SERVICE	CONNEC	TIONS	/1				SELF	SUPPLIE	D	U	
ESIDENT	TAL			COMMERC		COMME		INDUSTR	741 -			GOVERNM	ENTAL .			
		10 4/9			ed	NA				800				30		
	d								ed				ed			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	***							***	***					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	9,000	9,000	165.0	150.0	161.0	215.0	250.0	349.0	446.0	413.0	324.0	297.0	235.7	179.0	3184.7	
1981	9,200	9,200	178.0	164.0	167.0	197.0	275.0	413.0	437.0	429.0	350.0	229.0	157.0	120.0	3116.0	
1982	9,400	9,400	85.0	101.0	157.0	170.0	226.0	255.0	267.0	377.0	298.0	264.0	185.0	171.0	2556.0	
1983	9,600	9,600	181.0	151.0	170.0	198.0	256.0	294.0	396.0	250.0	223.0	142.0	139.0	139.0	2539.0	
1984	9,937	9,937	139.0	130.0	140.0	153.0	317.0	289.0	257.0	375.0	408.0	282.0	207.0	169.0	2866.0	
1985	10,464	10,464	116.0	151.0	196.0	253.0	296.0	340.0	420.0	456.0	317.0	296.0	219.0	210.0	3270.0	
1986	10,584	10,584	221.0	180.0	218.0	262.0	350.0	377.0	444.0	464.0	340.0	266.0	255.0	231.0	3608.0	
1987	11,056	11,056	226.0	184.0	222.0	329.0	344.0	366.0	510.0	433.0	361.0	315.0	234.0	225.0	3749.0	
1988	11,306	11,306	210.0	240.0	273.0	275.0	344.0	380.0	394.0	411.0	372.0	334.0	280.0	211.0	3724.0	
1989	11,412	11,412	249.0	220.0	270.0	318.0	359.0	385.0	442.0	442.0	393.0	352.0	319.0	313.0	4062.0	
1990	11,974	11,974	274.0	247.0	293.0	340.0	365.0	383.0	457.0	430.0	407.0	371.0	305.0	295.0	4167.0	
	PERSONS	AVEDACE														
YEAR	PER	POPULA-					DER CAR	ITA WAT	ER LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					TEN GO		LN OOL	(Spea))	-				good	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	3.89	35,000	152	148	148	205	230	332	411	381	309	274	224	165	249	0.27
1981	3.93	36,180	159	162	149	181	245	381	390	382	322	204	145	107	236	0.2
1982	3.98	37,378	73	97	135	152	195	227	230	325	266	228	165	148	187	0.21
1983	4.02	38,593	151	140	142	171	214	254	331	209	193	119	120	116	180	0.20
1984	4.06	40,383	111	111	112	126	253	239	205	300	337	225	171	135	194	0.2
1985	4.00	42,982	87	125	147	196	222	264	315	342	246	222	170	158	208	0.2
1986	4.11	43,938	162	146	160	199	257	286	326	341	258	195	193	170	225	0.25
1987	4.13	46,381	157	142	154	236	239	263	355	301	259	219	168	156	225	0.24
1988	4.24	47,925	141	173	184	191	232	264	265	277	259	225	195	142	213	0.23
1989	4.28	48,873	164	161	178	217	237	263	292	292	268	232	218	207	228	0.25
1999	4.28	51,804	171	170	182	217	237	246	285	268	262	232	196	184	228	0.24
	7.33	31,004														
AVERAGE			139	143	154	190	232	274	310	311	271	216	179	153	215	0.24

^{1/} Number of services
2/ Excludes services for agriculture, fire hydrants, fire protection, and other agencies.
3/ gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually
5/ Includes City of Industry

	LOS ANGEL ALTADENA	.53						CANON LA			λ.	OKIGIN (UP WATER	c (in p	ercent):	
SYSTEM #				711.2 01	NOLITOT		MULO !	N OWNED	AUGUUI.	71104		SURFA	CE WATER		0	
				DAST		SYSTEM	SERVI	· · ·					AND SPE		62	
		#			OS ANGEI		· ount					WELLS	MID SEE	11403	OE.	
			92				,									
//w #	•••••	•••••	,-					CUTSIDE				cui ibre i	DE LIATES	(in n	ercent):	
TITY CEN	SUS POPUL	ATTON						TY				SOURCE (OF WATER	C (in p	ercent):	
										х		DUDCH	ASED		20	
		-			OTHE		•••••	• • • • • • • •	•••••	^					29 71	
1990		0,000			SERVICE	COMMECT	TONE	/1				SELF :	SUPPL IEI	,	/1	
ESIDENT	TAL			COMMERC		COMMECT	TOMS	INDUSTR	TAL -			GOVERNME	THEAL .			
	d	3,135			ed	NA			ed	NA				***		
	ate	•			Rate	0				NA O			ed	NA O		
FLBT K	ate	U		rtat	kate	U		rest	Rate	U		Flat i	Rate	U		
YEAR	ACTIVE	SERVICE			1	TOTAL WA	TER II	ITO SYST	EM (MIL	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	3,000	3,000	/5	-	-			-	-	-	-	-	-	-	-	
1981			-	-	-	-	-		-	-	-	-	-	-		
1982	3,109	3,109	39.0	33.0	38.0	40.0	48.0	66.0	78.0	94.0	63.0	55.0	42.0	37.0	633.0	
1983	3,109	3,109	41.0	30.0	31.0	38.0	56.0	60.0	83.0	84.0	65.0	48.0	37.0	32.0	605.0	
1984	3,109	3,109	49.0	53.0	60.0	74.0	91.0	73.0	108.0	85.0	82.0	74.0	47.0	35.0	831.0	
1985	3,115	3,115	47.0	45.0	39.0	71.0	69.0	85.0	116.0	92.0	80.0	60.0	41.0	40.0	785.0	
1986	3,117	3,117	57.0	36.0	40.0	58.0	79.0	86.0	93.0	100.0	74.0	60.0	57.0	48.0	788.0	
1987	3,119	3,119	47.0	43.0	49.0	71.0	77.0	84.0	87.0	93.0	80.0	59.0	39.0	41.0	770.0	
1988	3,120	3,120	44.0	47.0	56.0	57.0	72.0	81.0	92.0	81.0	74.0	69.0	49.0	45.0	767.0	
1989	3,120	3,120	41.0	37.0	49.0	81.0	66.0	72.0	95.0	85.0	75.0	60.0	62.0	58.0	781.0	
1990	3,125	3,125	45.0	37.0	51.0	44.0	54.0	68.0	87.0	76.0	76.0	72.0	60.0	52.0	722.0	
	PERSONS	AVERAGE										_				
YEAR	PER	POPULA-					ED CAR	ITA WAT	ED LICE	(anad) /7	,				ANNUALLY	
OF	CONNEC-	TION					EK UAF	TIN MAII	EK USE	(gpcu)/s	,					-6
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afj
1980	2.00	6,000	-	•	-	•	-	-	-	-	-	•	-	-		-
1981	2.06		•				-	-	-	-	-	-	-	-	•	
1982	2.11	6,566	192	179	187	203	236	335	383	462	320	270	213	182	264	0.2
	2.17	6,740	196	159	148	188	268	297	397	402	321	230	183	153	246	0.2
1983	2.22	6,914	229	264	280	357	425	352	504	397	395	345	227	163	329	0.3
1983 1984			213	226	177	333	313	399	527	418	375	273	192	182	303	0.3
1983 1984 1985	2.28	7,102							412	443	339	266	261			0.3
1983 1984 1985 1986	2.28 2.34	7,281	253	177	177	266	350	394						213	296	
1983 1984 1985 1986 1987	2.28 2.34 2.39	7,281 7,461	253 203	206	212	317	333	375	376	402	357	255	174	177	283	0.3
1983 1984 1985 1986 1987 1988	2.28 2.34 2.39 2.45	7,281 7,461 7,638	253 203 186	206 212	212 237	317 249		375 354			357 323			177 190		0.3
1983 1984 1985 1986 1987 1988 1989	2.28 2.34 2.39 2.45 2.50	7,281 7,461 7,638 7,812	253 203 186 169	206 212 169	212 237 202	317 249 346	333 304 273	375 354 307	376 389 392	402 342 351	357 323 320	255 291 248	174 214 265	177	283	0.3
1983 1984 1985 1986 1987 1988	2.28 2.34 2.39 2.45	7,281 7,461 7,638	253 203 186	206 212	212 237	317 249	333 304	375 354	376 389	402 342	357 323	255 291	174 214	177 190	283 275	0.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LOS ANGEL	ES		WATER A	GENCY		SAN GAB	RIEL CO	UNTY WA	TER DIS	TRICT	ORIGIN	OF WATE	R (in p	ercent):	
	SAN GABRI				AGENCY											
					7,02,107							SURFA	CE WATE	D	0	
				COAST		SYSTE	M SERVE	S:					AND SP		-	
		#			OS ANGE										100	
							Υ									
								CUTSIDE		х		SOURCE	OF WATE	R (in n	ercent):	
CITY CEN	SUS POPUL	ATTON						τγ				SOUNCE	01 11111	K (III p	ci cuit,	
												PURCH	ASED		1	
		•											SUPPLIE			
.,,,,,,		,			SERVICE	CONNEC	TIONS	/1				-			•	
ESIDENT	TAL:			COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,431		Meter	ed	1.715		Meter	ed	429		Meter	ed	NA		
	ate	•			Rate	•			Rate	0			Rate			
														•		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
				400.5	476.0	444 -	4/5 -				400.5	405.5	45	476.1		
1980	8,331				131.0								157.0			
1981	8,331			108.0	120.0	150.0	185.0	235.0	247.0	245.0	211.0	167.0	156.0	139.0	2090.0	
1982	8,331	5,997	/5	-		400.0	-			-	-	-	-	-	-	
1983	8,331				113.0			190.0			191.0		145.0		1932.0	
1984	8,263	5,949	156.0		181.0						226.0		142.0			
1985	8,221		134.0		145.0							189.0				
1986	8,276	5,959	154.0					228.0			199.0		164.0			
1987	8,383	6,036	151.0	140.0			206.0		225.0				142.0			
1988	8,461	•			183.0							196.0				
1989	8,489	•			159.0							188.0				
1990	8,575	6,174	159.0	135.0	161.0	156.0	192.0	203.0	233.0	214.0	204.0	193.0	167.0	158.0	2175.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	5.01	41,776	102	101	101	131	130	172	197	176	150	139	125	107	136	0.15
1981	5.11	42,607	96	91	91	117	140	184	187	185	165	126	122	105	134	0.15
1982	5.21	43,438	70	- 71	,	-	140	104	-	-	103	-	122	-	-	-
1983	5.31	44,270	93	86	82	96	123	143	173	155	144	125	109	102	120	0.13
1984	5.41	44,733	112	129	131	144	174	166	190	172	168	138	106	98	144	0.16
1985	5.51	45,326	95	98	103	134	142	173	114	177	148	135	111	106	128	0.14
1986	5.61	46,455	107	96	106	129	155	164	169	176	143	120	118	107	133	0.14
1987	5.71	47,892	102	104	98	136	139	148	152	160	150	121	99	99	126	0.14
1988	5.81	49,182	98	106	120	117	135	148	155	152	140	129	110	102	126	0.14
1989	5.91	50,191	93	90	102	123	128	145	157	149	138	121	115	116	123	0.13
1990	6.01	51,556	99	94	101	101	120	131	146	134	132	121	108	99	116	0.12
		.,	.,													
AVERAGE			100	100	103	123	139	157	164	163	148	127	112	104	129	0.14

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually

fire protection, and other agencies.

^{5/} Missing date unavailable.

	LOS ANGEL							PASADENA				ORIGIN	OF WATE	R (in p	ercent):	
	SOUTH PAS			TYPE OF	AGENCY		MUNICIF	AL WATER	R DEPAR	TMENT						
SYSTEM #			19154									SURFA	CE WATE	R	1	
	IC REGION						M SERVE	S:				WELLS	AND SP	RINGS	99	
	SUBAREA			LITAN L												
DAU #		• • • • • • • • • • • • • • • • • • • •	92							х						
								OUTSIDE.				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							ΤΥ								
	• • • • • • • • • • • • • • • • • • • •	-			ОТН	ER	• • • • • •	•••••	• • • • • • • •				ASED		1	
1990	• • • • • • • • • • • • • • • • • • • •	23,928										SELF	SUPPL IE	D	99	
					SERVICE	CONNEC	TIONS									
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d				ed	366			ed	0			ed	NA		
Flat Ra	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	ITO SYSTI	EM (MILI	LION GA	LLONS)					
OF		TIONS /2			***		****								-	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,859	5,859	/5	-	-	-	-	-	-	-	-		-	-		
1981			-	-	-	-	-	-	175.0	174.0	150.0	122.0	121.0	99.0	-	
1982			85.0	84.0	86.0	99.0	118.0	129.0	173.0	179.0	145.0	145.0	98.0	89.0	-	
1983			96.0	75.0	80.0	90.0	119.0	135.0	171.0	156.0	141.0	109.0	88.0	84.0	-	
1984			95.0	105.0	122.0	129.0	167.0	156.0	190.0	170.0	161.0	143.0	101.0	94.0		
1985			102.0	90.0	106.0	134.0	145.0	174.0	191.0	182.0	150.0	135.0	107.0	105.0		
1986	5,973	5,973	113.0	85.0	103.0	127.0	165.0	173.0	184.0	196.0	152.0	130.0	129.0	115.0	1672.0	
1987			108.0	99.0	108.0	144.0	160.0	165.0	171.0	181.0	161.0	133.0	100.0	97.0	-	
1988	5,817	5,817	100.0	105.0	128.0	121.0	151.0	162.0	181.0	170.0	153.0	146.0	134.0	106.0	1657.0	
1989			99.0	89.0	117.0	149.0	148.0	166.0	180.0	157.0	173.0	141.0	136.0	131.0	-	
1990	6,073	6,073	113.0	99.0	126.0	120.0	134.0	149.0	175.0	159.0	154.0	145.0	132.0	121.0	1627.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WATE	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.87	22,674	-	-	-		-	-				-	-	-		
1981	3.88		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	3.88		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1702															_	
1983	3.89		-	-	-	•	-	-	-						-	
	3.89 3.90		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983 1984 1985	3.90 3.91		-	-	-	-			-		-		-		-	-
1983 1984 1985 1986	3.90 3.91 3.91	23,366	- - - 156	130	- - 142	181	228	247	254	- - 271	- - 217	- 179		159		
1983 1984 1985 1986 1987	3.90 3.91 3.91 3.92		156	•	-	-	-	-	-	-	-	-	184	•	196	- 0.220 -
1983 1984 1985 1986 1987 1988	3.90 3.91 3.91 3.92 3.93	23,366	156 - 141	159	181	177	213	236	256	- 271 - 240	223	206	184	150	- 196 - 199	0.220 - 0.223
1983 1984 1985 1986 1987 1988 1989	3.90 3.91 3.91 3.92 3.93 3.93	22,838	156 - 141 -	159	181	177	213	236	256	240	223	206	184 - 196	150	- 196 - 199 -	0.220 - 0.223
1983 1984 1985 1986 1987 1988	3.90 3.91 3.91 3.92 3.93		156 - 141	159	181	177	213	236	256	-	223	206	184	150	- 196 - 199	0.220 - 0.223

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	LOS ANGEL	.ES			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	WALNUT			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
		• • • • • • • • • •												R		
		l					M SERVE	S:				WELLS	AND SP	RINGS	. 1	
		#		LITAN L												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	92					• • • • • • •								
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ								
		•			ОТН	ER		• • • • • • •	• • • • • • •	X		PURCH	ASED	• • • • • • •	99	
1990		92,000										SELF	SUPPLIE	D	1	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT				COMMERC				INDUSTR				GOVERNM	ENTAL:			
Metere	d	23,421			ed			Meter	ed	189		Meter	ed	NA		
Flat R	late	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EN (HIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	15,892	15.892			206.1	317.8	328.5	452.6	556.0	553.2	420.3	400.5	361.0	319.6	4310.7	
1981	16,923	16,923			250.0										4939.2	
1982	17,340	17,340			242.3							416.8			4299.5	
1983	17,463														4210.7	
1984	17,750	17,750														
1985	18,177	18,177			336.5											
1986	19,142				306.2							469.1			5953.2	
1987	20,386				353.6							545.1			6390.6	
1988	22,812	•													7529.7	
1989	23,936	•													8239.8	
1990	24,480	24,480	449.5	411.1	551.9	559.7	713.6	790.1	986.3	926.6	866.8	777.1	644.9	588.9	8266.5	
	procue	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAD	ITA WAT	ED LICE	(anad)	7				ANNUALLY	
OF	CONNEC-	TION					PER GAP	IIA MAI	EK USE	(gpcu)/	,				gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.78	60,000	111	108	111	177	177	251	299	297	234	215	201	172	197	0.220
1981	3.77	63,863	149	131	126	178	226	306	334	308	268	188	180	143	212	0.237
1982	3.77	65,407	113	128	120	148	185	203	⁷ 275	278	225	206	148	128	180	0.202
1983	3.77	65,841	141	110	106	136	185	222	277	249	252	170	134	116	175	0.196
1984	3.77	66,892	137	177	198	221	275	276	337	330	284	239	156	124	230	0.150
1985	3.77	68,470	133	143	159	209	239	254	344	337	279	251	174	150	223	0.250
1986	3.77	72,071	161	123	137	195	271	306	330	333	265	210	202	174	226	0.253
1987	3.76	76,720	145	162	149	248	268	300	301	316	295	229	165	158	228	0.256
1988	3.76	85,810	145	178	208	210	260	311	331	323	296	254	191	167	240	0.269
1989	3.76	89,997	149	145	179	243	277	307	357	341	306	246	237	215	251	0.281
1990	3.76	92,000	158	160	194	203	250	286	346	325	314	272	234	206	246	0.276
ALFRAN			446	***	488					746	677	-	44.	456	240	0.075
AVERAGE			140	142	153	197	238	275	321	312	274	226	184	159	219	0.245

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	LOS ANGEL	ES		WATER A	GENCY		WEST CO	OVINA, C	ITY OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	WEST COVI	NA		TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	TMENT						
SYSTEM #			19014									SURFA	CE WATE	R	100	
YDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
LANNING	SUBAREA	#	METROPO	LITAN L	OS ANGE	LES										
AU #			92		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		80,094			отн	ER				х		PURCH	ASED		100	
1990		96,086										SELF	SUPPL IE	D	0	
		•			SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,663		Meter	ed	174		Meter	ed	NA		Meter	ed	140		
	ate	•			Rate				Rate	0			Rate			
		•												•		
YEAR	ACTIVE	SERVICE				TOTAL U	ATER II	ITO SYST	EM (MTI	LION GA	LLONS					
OF		TIONS /2					41	5151	,,,,,,,							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
			0744	120		~~~				700	JL1				MINONE	
1980	4,418	4,418	/5								-		-			
1981	4,410	4,410	,,			-										
1982			_	-	_	_	_	_	_	_	_			_		
1983	5,818	5,818	_						229.0	190.0	211.0	130.0	97.0	75.0		
1984	5,818	5,818	95.0	141.0	162.0	170.0	227.0	231.0	274.0	251.0	229.0	182.0	119.0	73.0	2154.0	
1985	6,589	4,230	102.0	92.0	81.0	125.0	155.0	171.0	194.0	278.0	206.0	199.0	163.0	136.0	1902.0	
1986	6,701	6,701	135.0	87.0	117.0	160.0	229.0	232.0	266.0	282.0	215.0	173.0	154.0	142.0	2192.0	
1987	6,944	4,215	99.0	132.0	89.0	164.0	171.0	243.0	286.0	308.0	237.0	317.0	194.0	113.0	2353.0	
1988	6,959	6,959		142.0		179.0	237.0		338.0	320.0	262.0	205.0	139.0	124.0	2482.0	
	•	•	112.0	100.0	152.0	200.0					324.0	258.0	240.0	201.0		
1989	6,965	6,965	118.0						364.0	375.0			204.0		2857.0	
1990	6,977	6,977	178.0	139.0	231.0	229.0	209.0	266.0	3/4.0	330.0	299.0	2/3.0	204.0	173.0	2985.0	
	PERSONS	AVERAGE														
EAR	PER	POPULA-					PER CAR	TAW ATI	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	af
CORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	1
1980	18.13	80,094	-		-	•	-	-	-	•	-	-	•	•	•	•
1981	17.69		-	-	-	-	-	-	-	-	-	-	-	•	-	•
1982	17.26		-	-	-	-	-	-	•	-	-	-	-	-	-	•
1983	16.82	97,870	-	•	-	-	-	-	75	63	72	43	33	25	•	•
1984	16.39	95,335	32	51	55	59	77	81	93	85	80	62	42	25	62	0.0
1985	15.95	105,097	31	31	25	40	48	54	60	85	65	61	52	42	50	0.0
1986	15.51	103,964	42	30	36	51	71	74	83	87	69	54	49	44	58	0.0
1987	15.08	104,708	30	45	27	52	53	77	88	95	75	98	62	35	62	0.0
1988	14.64	101,902	35	48	50	59	75	87	107	101	86	65	45	39	67	0.0
1989	14.21	98,956	38	36	50	67	80	95	119	122	109	84	81	66	79	0.0
1990	13.77	96,086	60	59	78	79	90	92	126	111	104	92	71	58	85	0.0
VERAGE			39	43	46	58	70	80	94	94	83	70	54	42	66	0.0

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capite daily

^{4/} afpca - acre-feet per capita annually

COUNTY	ORANGE			WATER	AGENCY		.ANAHE II	M, CITY	OF			ORIGIN	OF WATE	R (in p	percent):	
CITY	ANAHEIM			TYPE O	F AGENCY	·	MUNICI	PAL WATE	ER DEPA	RTMENT						
SYSTEM #			. 30001									SURF/	ACE WATE	R	49	
HYDROLOG	IC REGION		SOUTH	COAST		SYSTI	M SERV	ES:				WELLS	AND SE	RINGS.	. 51	
	SUBAREA															
DAU #			. 96		ENT	TIRE CIT	ry									
					ENT	TIRE CIT	TY PLUS	OUTSIDE	E	. х		SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POF	RTION O	THE C	ITY								
1980		221,847			OTI	ER						PURCI	ASED		49	
1990		266,406										SELF	SUPPLIE	D	. 51	
					SERVICE	CONNE	CTIONS	/1								
RESIDENT	IAL:			COMMER	CIAL:			INDUST	RIAL:			GOVERNA	MENTAL:			
Metere	d	51,780		Mete	red	5,490		Mete	red	. NA		Meter	red	305		
	ate			Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR		SERVICE				TOTAL (MATER I	NTO SYS	TEM (MII	LLION G	ALLONS)					
OF		TIONS /2		ppm	M2.0	apa	MAN	, ,,,		ALL			8100	DEG	Alminie	
RECORD	SYSTEM	CITY	MAL	FEB	MAR	APR	MAY	/ JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	49,765	47,775	1151.0	1020.0	1172.0	1520.0	1631.0	1984.0	2274.0	2194.0	1883.0	1794.0	1634.0	1435.0	19692.0	
1981	49,999														19999.0	
1982	50,233	•													18918.0	
1983	57,097	•													20904.0	
1984	51,546	-													22844.0	
1985	51,900	•													22566.0	
1986	52,720	-													22860.0	
1987	53.866														22867.0	
1988	53,800	•													23800.0	
1989	54,100														23932.0	
1990	55,500														24064.0	
		AVERAGE									_					
YEAR	PER	POPULA-					PER CA	PITA WA	TER USE	(gpcd)	/3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.64	231,088	161			219	228	286	317	306	272	250	236	200	233	0.261
1981		232,957							319			235	210	218		0.263
1982		234,834					239		311			255	206	174		0.247
1983		267,816										197		153		0.240
1984		242,585										266				0,289
1985		245,064										261				0.283
1986		249,761							327			233		201		0.281
1987		256,033					273					241		177		0.274
1988		256,562										252		228		0.285
1989		258,839										296				0.284
1990		266,406										269				0.277
		•														
AVERAGE			183	182	203	233	261	293	310	293	274	251	218	199	242	0.271

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	ORANGE				GENCY		-					ORIGIN	OF WATE	R (in p	ercent):	
CITY				TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
													CE WATE			
	IC REGION					SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	0	
	SUBAREA			NA												
DAU #			. 96				Υ									
							Y PLUS			х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •				OTH	ER	•••••	• • • • • • •	• • • • • • •				ASED			
1990		32,873										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d				ed	525			ed	237			ed	57		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000		9 207	/E						212.0	/21.0	404.0	405.0	45/ 0	475.0		
1980	8,252	8,207								328.0		284.0			2/97 0	
1981	8,537				122.0				238.0		239.0	266.0	196.0		2483.0	
1982	8,455		118.0		100.0					276.0					2285.0	
1983	8,794		119.0		108.0			202.0	174.0	296.0	203.0	279.0	203.0	179.0	2230.0	
1984	9,032	8,989			159.0			284.0	200 C	750.0	20/ 0	770 0	27/ ^	270.0	2350 0	
1985	9,066	•		148.0	129.0		172.0	253.0		359.0			234.0		2759.0	
1986	9,191				248.0		412.0		455.0 399.0			313.0	265.0		3899.0	
1987	9,151	8,455		223.0							392.0				4053.0	
1988	9,486				332.0						385.0	357.0	290.0		4312.0	
1989 1990	9,506 9,542	•			323.0 252.0											
1990	9,342	7,477	234.0	207.0	232.0	271.0	340.0	300.0	427.0	390.0	360.0	317.0	214.0	212.0	3740.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	efpc
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.40	28,066	-			-	-	-	244	484	233	465	183	201		-
1981	3.41	29,086	136	212	135	191	162	296	264	364	274	315	225	232	234	0.262
1982	3.41	28,857	132	188	112	161	196	267	197	309	318	297	226	202	217	0.243
1983	3.42	30,067	128	172	116	152	113	224	187	318	314	299	225	192	203	0.228
1984	3.42	30,934	131	172	166	255	226	306			-	-	-	-	-	-
1985	3.43	31,105	137	170	134	195	178	271	299	372	315	351	251	239	243	0.272
1986	3.44	31,588	274	254	253	317	367	374	465	486	424	320	280	239	338	0.379
1987	3.44	31,505	267	253	274	378	422	448	409	443	415	339	275	301	352	0.395
1988	3.45	32,715	243	296	327	349	397	445	465	477	392	352	295	278	361	0.404
1989	3.45	32,841	259	247	317	369	415	434	474	448	386	318	334	297	359	0.402
1990	3.46	33,022	229	224	246	274	340	363	419	387	384	310	277	266	310	0.348
ALEDACT			401	242	200	241	202		7/5	400	7/5	777	25.7	2/5	201	0.70
AVERAGE			194	219	208	264	282	343	342	409	345	337	257	245	291	0.326

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	ORANGE				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
CITY	BUENA PAR	K		TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #			30003									SURFA	CE WATE	R	50	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	50	
PLANNING	SUBAREA	#	SANTA A	NA												
)AU #			. 96		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		64,615			OTH	ER						PURCH	ASED		50	
1990		68,784										SELF	SUPPLIE	D	50	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNIN	ENTAL:			
Metere	d	15,459		Heter	ed	1,387		Meter	ed	196		Meter	ed	270		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR OF	ACT I VE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	17,290	17,014	277.0	250.0	282.0	388.0	414.0	425.0	590.0	561.0	468.0	529.0	400.0	330.0	4914.0	
1981	17,567	17,404	319.0	273.0	273.0	299.0	391.0	488.0	595.0	629.0	591.0	513.0	387.0	364.0	5122.0	
1982	17,472	17,306	284.0	284.0	309.0	340.0	432.0	467.0	610.0	544.0	458.0	450.0	313.0	304.0	4795.0	
1983	17,378	17,212	319.0	263.0	306.0	321.0	446.0	471.0	563.0	594.0	525.0	378.0	314.0	296.0	4796.0	
1984	17,211	17,377		350.0		448.0		558.0	658.0		533.0	487.0	334.0	280.0		
1985	17,663	17,497	289.0	288.0	319.0	423.0		553.0	590.0		492.0	427.0	334.0	328.0	5059.0	
1986	17,698	17,532		266.0		395.0		548.0		563.0				378.0		
1987	17,500	17,334		313.0		474.0	483.0		544.0		575.0		433.0			
1988	17,077	16,911	330.0	365.0			520.0		554.0						5393.0	
1989	17,457				379.0				590.0				417.0			
1990	18,379														5224.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.80	65,663	136	131	139	197	203	216	290	276	238	260	203	162	205	0.230
1981	3.80	66,678	154	146	132	149	189	244	288	304	295	248	193	176	210	0.236
1982	3.79	66,281	138	153	150	171	210	235	297	265	230	219	157	148	198	0.222
1983	3.79	65,887	156	143	150	162	218	238	276	291	266	185	159	145	199	0.223
1984	3.79	65,218	159	185	212	229	289	285	325	304	272	241	171	138	235	0.263
1985	3.79	66,893	139	154	154	211	227	276	285	263	245	206	166	158	207	0.232
1986	3.79	66,988	165	142	156	197	242	273	275	271	243	279	173	182	217	0.243
1987	3.78	66,202	155	169	180	239	235	274	265	265	290	254	218	172	226	0.254
1988	3.78	64,566	165	195	215	217	260	273	277	286	255	229	192	174	229	0.256
1989	3.78	65,966	168	163	185	229	252	265	289	281	247	216	211	184	225	0.251
1990	3.78	69,411	160	155	170	191	223	227	268	250	231	224	195	176	206	0.231
AVERAGE			154	158	167	199	232	255	285	278	256	233	185	165	214	0.240

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	ORANGE			WATER A	GENCY		FULLER	TON, CIT	Y OF			ORIGIN	OF WATER	R (in p	ercent):	
CITY	FULLERTON			TYPE OF	AGENCY		MUNICI	PAL WATE	R DEPAR	THENT						
SYSTEM #			30010									SURFA	CE WATE	R	54	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVI	ES:				WELLS	AND SPI	RINGS	46	
PLANNING	SUBAREA :	#	SANTA A	NA												
DAU #			96		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		. х		SOURCE	OF WATER	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE C	ITY								
1980		102,034			OTH	ER						PURCH	ASED		54	
1990		114.144										SELF	SUPPL I EI	D	46	
		•			SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	RIAL:			GOVERNM	ENTAL:			
	d	25,154		Meter	ed	1.766		Meter	red	135		Meter	ed	226		
	ate	•			Rate	•			Rate			Flat	Rate	0		
, tuc k						·								•		
YEAR	ACTIVE					TOTAL &	ATER I	NTO SYS	TEM (MIL	LION GA	(LLONS					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FE8	MAR	APR	MAY						NOV	DEC	ANNUAL	
															40000 6	
1980	25,957											940.0				
1981	26,500											849.0				
1982	26,956											911.0				
1983	26,869											810.0				
1984	27,536											974.0				
1985	27,338	27,337													10829.0	
1986	27,400	27,399	722.0	549.0											11262.0	
1987	27,301	27,300	688.0	661.0								911.0				
1988	27,528		672.0									1001.0				
1989	27,603														9921.0	
1990	27,890	27,889	704.0	577.0	765.0	773.0	938.0	1017.0	1154.0	1103.0	1030.0	929.0	815.0	779.0	10584.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WA	TER USE	(gpcd)	/3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	3.93	102,050	177	180	193	248	249	336	360	374	333	297	247	223	269	0.301
1981	3.95	104,612	202	188	198	238	283	373	402	383	344	262	235	192	276	0.309
1982	3.96	106,847	171	242	177	207	225	288	352	355	303	275	201	178	248	0.278
1983	3.98	106,935	191	277	165	195	247	309	348	339	337	244	202	177	252	0.283
1984	4.00	110,034	190	238	256	261	312	327	376	359	342	286	205	174	278	0.311
1985	4.01	109,684	177	192	216	255	286	340	394	370	322	280	209	198	270	0.303
1986		110,375	211	178	202	247	309	320	364	377	320	355	248	216	280	0.313
1987	4.04	110,416	201	214	223	287	300	344	346	353	333	266	207	187	272	0.305
1988		111,778	194	206	234	250	296	342	364	353	342	289	227	205	276	0.309
1989		112,528	169	164	193	245	254	271	310	311	274	241	238	223	242	0.271
1990		114,148	199		216	226	265	297	326	312	301	263	238	220	254	0.285
AVERAGE			189	206	207	242	275	322	358	353	323	278	223	199	265	0.297

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capite annually

	ORANGE				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
CITY	GARDEN GR	OVE		TYPE OF	AGENCY		MUNICIE	AL WATE	R DEPAR	RTMENT						
	f											SURFA	CE WATE	R	30	
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	70	
PLANNING	SUBAREA	#		INA												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	. 96		ENT	IRE CIT	Υ	•••••								
					ENT	IRE CIT	Y PLUS	OUTSIDE	Ē	. х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL				POR	TION OF	THE C	ΤΥ	• • • • • • •							
	• • • • • • • • • •				ОТН	ER	• • • • • •	•••••	• • • • • • •			PURCH	ASED	• • • • • • •	30	
1990	• • • • • • • • •	140,000										SELF	SUPPLIE	D	70	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT				COMMERC	IAL:			INDUSTR	RIAL:			GOVERNM	ENTAL:			
Metere	d	32,649		Meter	ed	1,707		Meter	red	593		Meter	ed	659		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR OF	ACTIVE	SERVICE TIONS /2				TOTAL W	ATER 11	ITO SYST	TEM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	32,402	31,714	392.0	444.0	644.0	670.0	822.0	1051.0	1072.0	806.0	734.0	745.0	508.0	532.0	8420.0	
1981	32,574	31,896	532.0	472.0	531.0	700.0	877.0	976.0	1000.0	1076.0	842.0	658.0	696.0	569.0	8929.0	
1982	32,385	31,716	539.0	441.0	549.0	579.0	800.0	779.0	754.0	780.0	709.0	689.0	552.0	501.0	7672.0	
1983	32,848	32,189	569.0	437.0	437.0	519.0	739.0	832.0	994.0	935.0	902.0	668.0	520.0	524.0	8076.0	
1984	32,631	31,982	565.0	559.0	771.0	774.0	1014.0	928.0	1087.0	1023.0	960.0	783.0	612.0	534.0	9610.0	
1985	32,724	32,041	553.0	506.0	629.0	772.0	872.0	1023.0	1072.0	1059.0	845.0	802.0	615.0	566.0	9314.0	
1986	32,723	32,071	612.0	512.0	592.0	732.0	971.0	986.0	1150.0	1088.0	859.0	813.0	690.0	630.0	9635.0	
1987	32,887	32,235	593.0	552.0	631.0	843.0	945.0	985.0	1002.0	1031.0	938.0	779.0	583.0	571.0	9453.0	
1988	33,756	33,104	585.0	635.0	758.0	766.0	951.0	1001.0	1069.0	1033.0	845.0	844.0	628.0	617.0	9732.0	
1989	33,969	33,044	594.0	537.0	670.0	843.0	936.0	982.0	1096.0	1039.0	887.0	819.0	758.0	736.0	9897.0	
1990	33,818	33,161	621.0	556.0	669.0	741.0	862.0	946.0	1056.0	1003.0	912.0	800.0	702.0	690.0	9558.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAF	ITA WAT	TER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
	7 90				445	477	240	220	27/	20/	40/	404	47/	47/	407	0.205
1980 1981		126,027	100 134	121	165	177	210	278	274	206	194	191	134 182	136 144	183	0.205
1981		127,779	134	132	134	183	221	255	252	272	220	166	182		191	0.214
1983		128,113 131,037		123	138	151 132	201 182	203	190	196 230	184	173		126	164	0.184
1984		131,256	140 139	119 147	108 189	197	249	212 236	245 267	250 251	229 244	164 192	132 155	129 131	169	0.189
1985		132,717	134	136	153	197	249	257	261	257	244	192	154	131	201 192	0.225
1986		133,801	148	137	143	182	234	246	277	262	214	196	172	152	197	0.221
1987		135,564	141	145	150	207	225	240	238	245	214	185	143	136	197	0.214
1988		140,268	135	156	174	182	219	238	246	238	201	194	149	142	191	0.214
1989		142,282	135	135	152	197	212	230	248	236	201	186	178	167	190	0.213
1990		142,774	140	139	151	173	195	221	239	227	213	181	164	156	183	0.215
		•														

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	ORANGE			WATER A	GENCY		HUNTING	TON BEA	CH, CIT	Y OF		ORIGIN	OF WATE	R (in p	ercent):	
CITY	HUNTINGTO	N BEACH		TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	TMENT						
SYSTEM #			30053									SURFA	CE WATE	R	53	
HYDROLOG	IC REGION		SOUTH C	CAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	47	
PLANNING	SUBAREA 1	¢	SANTA A	NA												
DAU #			96		ENT	IRE CIT	Υ			X						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CENS	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		170,505			ОТН	ER						PURCH	ASED		53	
1990		181,519										SELF	SUPPLIE	D	47	
					SERVI CE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	44,908		Meter	ed	3,077		Meter	ed	NA.		Meter	ed	586		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACT IVE	SERVICE				TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	(LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	43,594	42,811														
1981	44,312	43,529													10481.0	
1982	44,482	43,699	687.0	621.0	703.0	786.0	954.0	1002.0	1153.0	1135.0	958.0	965.0	770.0	716.0	10450.0	
1983	44,936	44,153											667.0	685.0	8272.0	
1984	45,105	44,356	780.0	837.0	978.0	980.0	1156.0	1136.0	972.0	977.0	925.0	963.0	786.0	723.0	11213.0	
1985	45,625	44,910	771.0	715.0	853.0	990.0	1097.5	1165.0	1222.0	1178.0	1133.0	1021.0	797.0	744.0	11686.5	
1986	45,963	45,247	871.0	683.0	801.0	931.0	1144.0	1176.0	1214.0	1253.0	1049.0	986.0	921.0	846.0	11875.0	
1987	46,069	45,069	839.0	779.0	891.0	1063.0	1160.0	1169.0	1218.0	1255.0	1152.0	993.0	835.0	835.0	12189.0	
1988	47,799	47,075	833.0	939.0	1054.0	925.0	1259.0	1217.0	1256.0	1213.0	1074.0	1057.0	876.0	831.0	12534.0	
1989	47,986	47,252	898.0	897.0	1025.0	1108.0	1274.0	1231.0	1399.0	1372.0	1114.0	999.0	948.0	1069.0	13334.0	
1990	48,571	47,837	798.0	814.0	962.0	964.0	1258.0	1246.0	1299.0	1301.0	1118.7	1015.0	897.0	858.0	12530.7	
	PERSONS	AVEDACE		-				-								
YEAR	PER	POPULA-					DED CA	DITA MAT	TER USE	(ancd)	73				ANNUALLY	
OF	CONNEC-	TION					I ER ON	alle week	LK OOL	(Spour,	-				gpcd	afpc
RECORD	TION	SERVED	KAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.98	173,623	119	113	121	159	163	198	208	195	181	163	157	132	160	0.179
1981	3.96	175,649	127	123	121	156	176	214	209	209	189	158	150	128	163	0.183
1982	3.95	175,486	126	126	129	149	175	190	212	209	182	177	146	132	163	0.183
1983	3.93	176,431	125	117	121	128	148	170	125	123	111	121	126	125	128	0.144
	3.91	176,246	143	164	179	185	212	215	178	179	175	176	149	132	174	0.195
1984	3.89	177,419	140	144	155	186	200	219	222	214	213	186	150	135	180	0.202
1984 1985		177 0/0	158	137	145	174	207	220	220	227	197	179	173	153	183	0.205
	3.87	177,000				200	211	220	221	228	216	181	157	152	188	0.211
1985		177,411	153	157	162	200										
1985 1986	3.85		153 147	157 177		168	222	221	221	214	195	186	159	146	187	0.210
1985 1986 1987	3.85	177,411			186			221 224	221 247	214 242		186 176	159 173	146 188	187 200	0.210
1985 1986 1987 1988	3.85 3.83 3.81	177,411 183,174	147	177	186 181	168	222	224			203					

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	ORANGE			WATER A	GENCY		LA HABR	A, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	LA HABRA			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #	f		30018									SURFA	CE WATE	R	30	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	70	
PLANNING	SUBAREA	#	SANTA A	NA												
DAU #			96		ENT	IRE CIT	Υ			. х						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	тү								
1980		45,232			ОТН	ER						PURCH	ASED		30	
1990		51,266										SELF	SUPPLIE	D	70	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	10,780		Meter	ed	566		Meter	ed	156		Meter	ed	65		
	Rate				Rate				Rate				Rate			
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	19,850	10,850	160.0	155.0	166.0	225.0	236.0	294.0	341.0	330.0	258.0	241.0	229.0	178.0	2813.0	
1981	10,876	10,876	211.0	158.0	176.0	230.0	267.0	370.0	357.0	334.0	295.0	238.0	219.0	183.0	3038.0	
1982	10,881	10,881	176.0	168.0	176.0	209.0	241.0	255.0	337.0	325.0	270.0	249.0	201.0	183.0	2790.0	
1983	10,900	10,900	190.0	154.0	158.0	196.0	233.0	270.0	316.0	312.0	289.0	210.0	185.0	169.0	2682.0	
1984	10,925	10,925	190.0	210.0	242.0	246.0	268.0	285.0	392.0	353.0	343.0	275.0	200.0	175.0	3179.0	
1985	11,077	11,077	208.0	196.0	222.0	255.0	312.0	318.0	380.0	349.0	276.0	276.0	198.0	217.0	3207.0	
1986	11,348	11,348	187.0	185.0	181.0	222.0	266.0	310.0	346.0	355.0	289.0	242.0	213.0	231.0	3027.0	
1987	11,400	11,400	206.0	190.0	210.0	274.0	290.0	334.0	312.0	335.0	308.0	265.0	196.0	210.0	3130.0	
1988	11,425	11,425	200.0	217.0	260.0	249.0	292.0	314.0	347.0	348.0	301.0	271.0	256.0	203.0	3258.0	
1989	11,455	11,455	195.0	181.0	220.0	262.0	299.0	304.0	355.0	348.0	290.0	271.0	256.0	240.0	3221.0	
1990	11,562	11,562	218.0	179.0	217.0	231.0	282.0	281.0	324.0	331.0	309.0	300.0	256.0	226.0	3154.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.17	82,752	62	65	65	91	92	118	133	129	104	94	92	69	93	0.104
1981	4.20	45,629	149	124	124	168	189	270	252	236	216	168	160	129	182	0.204
1982	4.22	45,938	124	131	124	152	169	185	237	228	196	175	146	129	166	0.186
1983	4.25	46,308	132	119	110	141	162	194	220	217	208	146	133	118	159	0.178
1984	4.27	46,703	131	155	167	176	185	203	271	244	245	190	143	121	186	0.209
1985	4.30	47,647	141	147	150	178	211	222	257	236	193	187	139	147	184	0.207
1986	4.33	49,114	123	135	119	151	175	210	227	233	196	159	145	152	169	0.189
1987	4.35	49,641	134	137	136	184	188	224	203	218	207	172	132	136	173	0.193
1988	4.38	50,053	129	149	168	166	188	209	224	224	200	175	170	131	178	0.200
1989	4.41	50,488	125	128	141	173	191	201	227	222	191	173	169	153	175	0.196
1990	4.43	51,266	137	125	137	150	177	183	204	208	201	189	166	142	169	0.189
AVERAGE			126	128	131	157	175	202	223	218	196	166	145	130	167	0.187
			120	120	191		113	202		210	175	,00	143	150	101	0.101

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	COSTA MES			TYPE OF	AGENCY	• • • • • • •	PUBLIC	WATER D	TOIKICI			CUDEA	CE WATE	D	-	
						04075	M CERVE									
	IC REGION					STSTE	M SERVE	5:				WELLS	AND SP	KINGS	45	
	SUBAREA			ANA	5117											
AU #			96					OUTCIDE		v		COLIDOR	05 11475	D 41		
								OUTSIDE		Х		SOURCE	OF WATE	K (in p	percent):	
	SUS POPUL							ΤΥ				DI ID OII				
	• • • • • • • • • • • • • • • • • • • •				OIM	EK		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				IASED SUPPLIE			
1990	• • • • • • • • • • • • • • • • • • • •	90,337			SERVICE	CONNEC	TIONE	/1				SELF	SUPPLIE	υ	40	
ESIDENT	TAL -			COMMERC		CONNEC		INDUSTR	TAL .			GOVERNM	ENTAL .			
		10 0/7			ed	2 /36				271				285		
	d	•			Rate				ed Rate	0			red Rate	203		
rlat K	ate	U		rtat	Kale	U		rtat	Kale	Ū		rtat	Kate	U		
YEAR	ACTIVE	SERVICE				TOTAL	ATER IN	ITO SYST	EM (MILI	ION GA	LLOWS					
OF		TIONS /2				. orrib W		5151	(1116)	un						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	20,138	18,120	/5	-	-		-	-	-	-	-	_		-	5942.7	
1981	20,632	18,600	-	-	-		-	-	-	-		-	-		6221.0	
1982	21,160	19,000	-	-	-	-	-	-	_	_	-	-		-		
1983	21,280	19,200	486.0	346.0	257.0	290.0	475.0	524.0	649.0	712.0	650.0	529.0	391.0	352.0	5661.0	
1984	21,400	19,300	448.0	450.0	527.0	355.0	551.0	694.0	671.0	747.0	687.0	592.0	473.0	415.0	6610.0	
1985	21,500	19,350	454.0	414.0	499.0	530.0	613.0	692.0	763.0	739.0	619.0	623.0	482.0	443.0	6871.0	
1986	21,950	19,750	477.0	376.0	436.0	522.0	661.0	666.0	723.0	755.0	660.0	592.0	551.0	472.0	6891.0	
1987	21,787	19,608	458.0	430.0	483.0	599.0	667.0	723.0	719.0	744.0	686.0	596.0	473.0	468.0	7046.0	
1988	22,201	19,981	481.0	498.0	594.0	565.0	704.0	732.0	785.0	779.0	709.0	642.0	520.0	503.0	7512.0	
1989	22,500	20,280	506.0	417.0	559.0	693.0	705.0	707.0	783.0	765.0	689.0	615.0	564.0	542.0	7545.0	
1990	22,657	20,437	480.0	431.0	548.0	540.0	661.0	707.0	782.0	751.0	693.0	657.0	536.0	561.0	7347.0	
	PERSONS	AVEDACE														
YEAR	PER	POPULA-					PER CAD	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION					. an one			. apou//		-			gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	-
1980	4.54	91,456	-	-	-	-	-	-	-			-	-	-	178	0.
1981	4.56	94,057		-	-	-	-	-	•	-	-	-	-	-	181	0.
1982	4.58	96,831	-	-	-	-	-	-	-	-	-	-	-	-	170	0.
1983	4.59	97,749	160	126	85	99	157	179	214	235	222	175	133	116	159	0.
1984	4.61	98,671	146	157	172	120	180	234	219	244	232	194	160	136	184	0.
1985	4.63	99,505	147	149	162	178	199	232	247	240	207	202	161	144	189	0.
1986	4.65	101,968	151	132	138	171	209	218	229	239	216	187	180	149	185	0.
1987	4.66	101,589	145	151	153	197	212	237	228	236	225	189	155	149	190	0.
1988	4.68	103,904	149	165	184	181	219	235	244	242	227	199	167	156	198	0.
1989	4.70	105,694	154	141	171	219	215	223	239	233	217	188	178	165	196	0.
1990	4.71	106,824	145	144	165	169	200	221	236	227	216	198	167	169	188	0.
VERAGE			150	146	154	166	199	222	232	237	220	192	163	148	183	0.

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^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data not available.

COUNTY	ORANGE			WATER A	GENCY		ORANGE,	CITY C	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY					AGENCY											
			30027									SURFA	CE WATE	R	0	
	IC REGION			OAST		SYSTE	M SERVE	S:						RINGS	100	
PLANNING	SUBAREA	#	SANTA A	NA												
DAU #			96		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		x		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ						·		
1980		91,788			ОТН	ER						PURCH	ASED		100	
												SELF	SUPPL IE	D	0	
					SERVICE	CONNEC	TIONS .	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	db	29,761		Meter	ed	2,442		Meter	ed	221		Meter	ed	170		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000	27.0/4	26.696	//2.0	705.0	//7.0			7/4 0	97/ 0	922.0	722.0				75 (O O	
1980 1981	27,841 26,408	25,262												472.0		
1982	26,500	25,262												498.0	7508.0	
1983	28,000	26,851												435.0		
1984	27,500	26,349							1001.0		850.0	776.0			8711.0	
1985	27,300	26,158												532.0		
1986	28,243	26,989										697.0			8895.0	
1987	30,000	28,644		532.0		806.0				965.0		706.0		545.0		
1988	33,962	32,403								989.0				607.0		
1989	34,065	32,506			672.0											
1990	33,288	31,729														
	PERSONS	AVEDACE														
YEAR	PER	POPULA-					PER CAP	ITA UAT	FR LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								(3)//	-				gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.44	95,725	149	142	151	212	209	265	295	277	251	232	224	183	217	0.243
1981	3.44	90,928	165	167	173	220	249	318	329	325	286	224	212	167	236	0.265
1982	- 3.45	91,376	159	162	149	195	237	265	305	322	263	263	201	176	225	0.252
1983	3.45	96,686	174	151	149	169	214	251	295	275	264	198	173	145	205	0.230
1984	3.46	95,095	174	201	229	245	289	290	340	324	298	263	197	150	251	0.28
1985	3.46	94,573	172	179	220	244	276	310	342	342	280	275	203	181	253	0.283
1986	3.47	97,943	196	157	178	233	297	307	329	338	276	230	236	203	249	0.279
1987	3.47	104,184	182	182	175	258	271	297	297	299	275	219	179	169	234	0.26
1988	3.48	118,111	152	175	202	203	240	266	288	270	258	250	179	166	222	0.24
1989	3.48	118,637	160	156	183	232	241	257	294	295	260	229	226	211	229	0.257
1990	3.49	116,095	169	163	183	198	238	266	295	283	273	247	217	196	228	0.255
AVERAGE			168	167	181	219	251	281	310	305	271	239	204	177	232	0.259

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	ORANGE				AGENCY F AGENCY					TMENT		URIGIN	OF WATE	K (in p	percent):	
	SANTA ANA		70070	TYPE U	AGENCY		.MUNICII	AL WATE	K DEPAR	IMENI		CHIDE	ICE WATE		. 25	
	IC REGION			COAST		SYSIE	M SERVI	:5:				WELLS	S AND SP	KINGS.	. 75	
	SUBAREA															
DAU #		• • • • • • • •	. 96													
												SOURCE	OF WATE	R (in p	percent):	
	ISUS POPUL				POR	TION O	F THE C	ITY								
					OTH	ER							IASED			
1990		293,742										SELF	SUPPL IE	D	. 75	
					SERVICE	CONNEC	CTIONS	/1								
ESIDENT	IAL:			COMMERC	CIAL:			INDUSTR	RIAL:			GOVERNA	MENTAL:			
Metere	d	NA		Meter	red	. NA		Meter	red	. NA		Meter	red	. NA		
Flat R	ate	NA		Flat	Rate	. NA		Flat	Rate	. NA		Flat	Rate	NA.		
YEAR	ACTIVE	SERVICE				TOTAL V	ATER II	NTO SYST	TEM (MIL	LION G	(LLONS					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000		70.01	070	7/0.0	000.0	4050	4477	4704.0	4/74 6	4777 0	4222.0	4200	4000	07/ 0	470/0 0	
1980	39,860														13249.0	
1981	40,522														13923.0	
1982	40,653														13358.0	
1983	43,089														13875.0	
1984	43,125	43,076	1037.0	1071.0	1273.0	1243.0	1484.0	1447.0	1629.0	1587.0	1498.0	1380.0	1106.0	997.0	15752.0	
1985	45,093	45,043	1074.0	973.0	1149.0	1293.0	1431.0	1546.0	1691.0	1641.0	1384.0	1398.0	1127.0	1073.0	15780.0	
1986	44,950	44,899	1122.0	921.0	1078.0	1229.0	1495.0	1522.0	1603.0	1665.0	1393.0	1283.0	1220.0	1119.0	15650.0	
1987	43,000	42,947	1100.0	1033.0	1151.0	1371.0	1461.0	1520.0	1570.0	1602.0	1480.0	1343.0	1113.0	1101.0	15845.0	
1988	44,832	44,775	1100.0	1142.0	1353.0	1309.0	1515.0	1561.0	1650.0	1610.0	1481.0	1413.0	1192.0	1165.0	16491.0	
1989	47,124	47,067	1159.0	1035.0	1259.0	1426.0	1538.0	1536.0	1689.0	1707.0	1520.0	1429.0	1364.0	1329.0	16991.0	
1990	43,491	43,491	1188.0	1068.0	1270.0	1261.0	1457.0	1542.0	1695.0	1632.0	1515.0	1481.0	1314.0	1242.0	16665.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAI	PITA WAT	TER USE	(ancd)	/3				ANNUALLY	
OF	CONNEC-	TION								(Spec)			•		gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	5.12	203,933	132	130	136	172	179	213	226	217	201	190	178	154	178	0.19
1981		213,957	140	139	139	174	188	225	223	224	207	173	166	140	178	0.20
1982		221,307	130	138	137	152	173	186	210	208	181	181	149	136	165	0.18
1983		241,625	132	120	123	141	161	177	201	203	191	159	145	132	157	0.17
1984	5.77		134	148	165	166	192		211	206	201	179	148	129	173	0.19
1985	5.94		129	130	138	161	172		204	198	172	169	140	129	162	0.1
1986			132	120	127	149	176	185	189	196	169	151	148	132	156	0.17
1987		274,148	132	137	138			188	188					132		
	6.26					170	175			192	183	161	138		161	0.18
1988	6.43		123	137	151	151	170	181	185	180	171	158	138	130	157	0.17
1989		310,561	120		131	153	160	165	175	177	163	148	146	138	150	0.10
	0.75	293,742	130	130	139	143	160	175	186	179	172	163	149	136	155	0.17
1990																

^{1/} Service connection breakdown not available.

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

CITY	ORANGE							ACH, CI				ORIGIN (OF WATER	R (in p	ercent):	
	SEAL BEAC			TYPE OF	AGENCY		MUNCIPA	L WATER	DEPART	MENT						
SYSTEM #	f	• • • • • • • • • • • • • • • • • • • •	30041									SURFA	CE WATE	R	20	
						SYSTE	M SERVE	s:				WELLS	AND SPI	RINGS	80	
PLANNING	SUBAREA	#	SANTA A	NA												
DAU #		• • • • • • • • • • • • • • • • • • • •	96		ENT:	IRE CIT	۲			×						
					ENT:	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	isus popul	ATION			POR'	TION OF	THE CI	τγ								
1980		25,975			OTH	ER						PURCH	ASED		20	
1990		25,098										SELF :	SUPPLIE	D	80	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	AL:			GOVERNM	ENTAL:			
Metere	d	4,508		Meter	ed	213		Meter	ed	7		Meter	ed	35		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EN CMILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
	/ 700		·							130.0		90.0	127.0	113.0		
1980	4,780	4,780	/5 cz.o												_	
1981	4,785	4,785	93.0		112.0	122.0			120.0		114.0	91.0	62.0		1221.0	
1982	4,858	4,858	66.0	51.0	49.0	75.0	93.0		119.0	112.0	91.0	69.0	52.0	56.0	944.0	
1983	4,733	4,735	57.0	72.0	91.0	99.0	125.0	106.0			***	447.0			•	
1984	4,776	4,776			-	-	400.0			128.0	149.0	117.0	81.0	62.0		
1985	4,751	4,751	62.0	58.0	65.0	94.0		136.0		148.0	130.0	95.0	68.0		1187.0	
1986	4,768	4,768	59.0	48.0	62.0	97.0	95.0	107.0	125.0	126.0	82.0	94.0	84.0	77.0	1056.0	
1987	4,768	4,768	_ :	-	-		-	-	-	-	-		-	-	-	
1988	4,762	4,762	73.0	74.0	104.0			123.0		130.0	108.0	94.0	83.0		1203.0	
1989	4,698	4,698	70.0	65.0	82.0			132.0		141.0	126.0	110.0			1293.0	
1990	4,734	4,734	83.0	75.0	97.0	101.0	121.0	129.0	140.0	131.0	118.0	110.0	101.0	91.0	1297.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	FR USE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION													good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
	5 43	25 075	-	-	-	-			153	161	133	112	163	140		-
1980	5.43	25,975							153	161	133	112	163	140		
1980 1981	5.42	25,939	116	80	139	157	211	118	149	163	146	113	80	70	129	0.144
1980 1981 1982	5.42 5.41	25,939 26,270	116 81	80 69	139 60	157 95	211 114	118 141								
1980 1981 1982 1983	5.42 5.41 5.39	25,939 26,270 25,532	116 81 72	80 69 101	139 60 115	157 95 129	211 114 158	118 141 138	149 146	163 138	146 115	113 85	80 66	70 69	129 98 -	0.144
1980 1981 1982 1983 1984	5.42 5.41 5.39 5.38	25,939 26,270 25,532 25,700	116 81 72	80 69 101	139 60 115	157 95 129	211 114 158	118 141 138	149 146 - 168	163 138 - 161	146 115 - 193	113 85 - 147	80 66 - 105	70 69 - 78	129 98 -	0.144
1980 1981 1982 1983 1984 1985	5.42 5.41 5.39 5.38 5.37	25,939 26,270 25,532 25,700 25,503	116 81 72 - 78	80 69 101 -	139 60 115 -	157 95 129 - 123	211 114 158 - 152	118 141 138 - 178	149 146 - 168 191	163 138 - 161 187	146 115 - 193 170	113 85 - 147 120	80 66 - 105 89	70 69 - 78 76	129 98 - - 128	0.144 0.110 - - 0.143
1980 1981 1982 1983 1984 1985 1986	5.42 5.41 5.39 5.38 5.37 5.35	25,939 26,270 25,532 25,700 25,503 25,531	116 81 72 - 78 75	80 69 101 - 81 67	139 60 115 - 82 78	157 95 129 - 123 127	211 114 158 - 152 120	118 141 138 - 178 140	149 146 - 168 191 158	163 138 - 161 187 159	146 115 - 193 170 107	113 85 - 147 120 119	80 66 - 105 89 110	70 69 - 78 76 97	129 98 - - 128 113	0.144 0.110 - - 0.143 0.127
1980 1981 1982 1983 1984 1985 1986	5.42 5.41 5.39 5.38 5.37 5.35	25,939 26,270 25,532 25,700 25,503 25,531 25,468	116 81 72 - 78 75	80 69 101 - 81 67	139 60 115 - 82 78	157 95 129 - 123 127	211 114 158 - 152 120	118 141 138 - 178 140	149 146 - 168 191 158	163 138 - 161 187 159	146 115 193 170 107	113 85 - 147 120 119	80 66 - 105 89 110	70 69 - 78 76 97	129 98 - - 128 113	0.144 0.110 - 0.143 0.127
1980 1981 1982 1983 1984 1985 1986 1987 1988	5.42 5.41 5.39 5.38 5.37 5.35 5.34 5.33	25,939 26,270 25,532 25,700 25,503 25,531 25,468 25,373	116 81 72 - 78 75 - 93	80 69 101 - 81 67 - 101	139 60 115 - 82 78 - 132	157 95 129 - 123 127 -	211 114 158 - 152 120 - 146	118 141 138 - 178 140 - 162	149 146 - 168 191 158 - 170	163 138 - 161 187 159 - 165	146 115 - 193 170 107 - 142	113 85 - 147 120 119 -	80 66 - 105 89 110 - 109	70 69 - 78 76 97 - 97	129 98 - - 128 113 - 130	0.144 0.110 - 0.143 0.127 - 0.145
1980 1981 1982 1983 1984 1985 1986 1987 1988	5.42 5.41 5.39 5.38 5.37 5.35 5.34 5.33 5.31	25,939 26,270 25,532 25,700 25,503 25,531 25,468 25,373 24,969	116 81 72 - 78 75 - 93 90	80 69 101 - 81 67 - 101 93	139 60 115 - 82 78 - 132 106	157 95 129 - 123 127 - 117 138	211 114 158 - 152 120 - 146 160	118 141 138 - 178 140 - 162 176	149 146 - 168 191 158 - 170 178	163 138 - 161 187 159 - 165 182	146 115 193 170 107 - 142 168	113 85 - 147 120 119 - 120 142	80 66 - 105 89 110 - 109 133	70 69 - 78 76 97 - 97 132	129 98 - - 128 113 - 130 142	0.144 0.110 - 0.143 0.127 - 0.145 0.159
1980 1981 1982 1983 1984 1985 1986 1987 1988	5.42 5.41 5.39 5.38 5.37 5.35 5.34 5.33	25,939 26,270 25,532 25,700 25,503 25,531 25,468 25,373	116 81 72 - 78 75 - 93	80 69 101 - 81 67 - 101	139 60 115 - 82 78 - 132	157 95 129 - 123 127 -	211 114 158 - 152 120 - 146	118 141 138 - 178 140 - 162	149 146 - 168 191 158 - 170	163 138 - 161 187 159 - 165	146 115 - 193 170 107 - 142	113 85 - 147 120 119 -	80 66 - 105 89 110 - 109	70 69 - 78 76 97 - 97	129 98 - - 128 113 - 130	0.144 0.110 - 0.143 0.127 - 0.145

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY.	ORANGE			WATER A	GENCY		TUST IN	CITY C	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY	TUSTIN			TYPE OF	AGENCY		MUNICIF	PAL WATE	R DEPAR	TMENT						
SYSTEM #	¥		30046									SURFA	CE WATE	R	46	
YDROLOG	GIC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	54	
LANNING	SUBAREA	#	SANTA /	NA												
AU #			. 96		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		32,073			ОТН	ER						PURCH	ASED		46	
1990		50,689										SELF	SUPPLIE	D	54	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	9,550		Meter	ed	2,968		Meter	ed	1,062		Meter	ed	55		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	13,800	5,900	/5	-	-	-	-	-	-	-	-	-	347.0	277.0		
1981	13,886	5,998	257.0	229.0	252.0	322.0	400.0	491.0	490.0	497.0	434.0	352.0	328.0	264.0	4316.0	
1982	13,872	7,016	247.0	247.0	239.0	285.0	375.0	383.0	492.0	480.0	352.0	385.0	283.0	255.0	4023.0	
1983	13,778	6,972	285.0	205.0	216.0	272.0	357.0	400.0	481.0	421.0	409.0	328.0	268.0	228.0	3870.0	
1984	13,850	7.011	289.0	304.0	359.0	378.0	462.0	452.0	520.0	494.0	452.0	400.0	293.0	237.0	4640.0	
1985	13,949	7,062	266.0	241.0	308.0	371.0	431.0	489.0	536.0	514.0	403.0	409.0	309.0	272.0	4549.0	
1986	14,031	7,102	293.0	228.0	263.0	327.0	417.0	459.0	491.0	490.0	412.0	345.0	332.0	274.0	4331.0	
1987	13,611	8,167	268.0	280.0				449.0					275.0	257.0	4334.0	
1988	13,630	7,881	265.0	252.0	315.0	341.0	438.0	425.0	449.0	458.0	394.0	368.0	277.0	262.0	4244.0	
1989	13,633	4,891	261.0	223.0	282.0	369.0	411.0	401.0	524.0	494.0	421.0	369.0	309.0	328.0	4392.0	
1990	13,635	7,905						401.0								
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAR	PITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								101			•		good	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	5.44	75,018	-	-			•				-	-	154	119	-	-
1981	5.53	76,841	108	106	106	140	168	213	206	209	188	148	142	111	154	0.17
1982	5.63	78,118	102	113	99	122	155	163	203	198	150	159	121	105	141	0.15
1983	5.73	78,934	116	93	88	115	146	169	197	172	173	134	113	93	134	0.15
1984	5.83	80,698	116	130	144	156	185	187	208	197	187	160	121	95	158	0.17
1985	5.92	82,636	104	104	120	150	168	197	209	201	163	160	125	106	151	0.16
1986	6.02	84,492	112	96	100	129	159	181	187	187	163	132	131	105	140	0.15
1987	6.12	83,291	104	120	135	125	180	180	174	182	166	134	110	100	143	0.16
1988	6.22	84,738	101	103	120	134	167	167	171	174	155	140	109	100	137	0.15
1989	6.31	86,088	98	93	106	143	154	155	196	185	163	138	120	123	140	0.15
1990	6.41	87,431	101	96	113	123	145	153	183	169	165	148	132	115	137	0.15
VERAGE			106	105	113	134	163	177	193	187	167	145	125	106	143	0.16

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	ORANGE			WATER A	AGENCY		YORBA L	INDA WA	TER DIS	TRICT		ORIGIN	OF WATE	R (in p	percent):	
CITY	YORBA LIN	DA ET AL		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT	r						
SYSTEM #			30037									SURFA	CE WATE	R	. 55	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS.	. 45	
PLANNING	SUBAREA	#	SANTA A	INA												
DAU #			96		ENT	IRE CIT	Υ			. х						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	τγ								
1980		40,000			ОТН	ER						PURCH	ASED		. 55	
1990		60,800										SELF	SUPPLIE	D	. 45	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	db	18,194		Meter	ed	439		Meter	ed	. 5		Meter	ed	302		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	****				****			***		**				
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	12.009	12.009	/5	-	-	-	-	-		_	_		-			
1981	,	,		-	-	-	-	-	_	-	-	-	_	_	_	
1982			_	_	_	_	_	-	_	_	_	-		-		
1983			-	-		-	_	_	_	_	_	-	_	_	_	
1984								_	_	_	_	-		_		
1985						-	_	_	_	_	_	_			_	
1986	15,609	15,609	314.0	208.0	253.0	417.0	515.0	534.0	621.4	625.0	541.0	375.0	365.0	358.0	5126.4	
1987	15,582	•			340.0							414.0	273.0		5242.0	
1988	13,302	13,302	-		-		-	-	-	-	-	-	-			
1989	17,936	17 036	312 N	246.0	358.0	522 N	569 n	592 N	711 0	705.0	575 N	490 n	505.0	480 n	6065 N	
1990	19,224	•			416.0											
														-		
		AVERAGE														
YEAR	PER	POPULA-					PER CAP	TIA MAI	EK USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION		FFO		400				4110	055		New /		gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.33	40,000	-			-	-	-	-	-	-	-	-	-	-	-
1981	3.31		-		-		-	-	-	-	-	-	-	-	-	-
1982	3.30				-		-	-	-	-	-	-	-	-	-	-
1983	3.28			-	-				-	-	-	-	-	-	-	-
1984	3.26		-	-	-	-	-			-	-	-	_	-	-	-
1985	3.25				-		-	-	-	-	-	-	_	-	-	-
	3.23	50,416	201	147	162	276	330	353	398	400	358	240	241	229	279	0.312
1986			185	197	219	318	335	381	372	390	410	267	182	181	287	0.321
1986 1987	3.21	50,067														
	3.21 3.20	50,067	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987		57,028		154	203	305	322	346	402	399	336	277	295	272	- 291	0.326
1987 1988	3.20		-													
1987 1988 1989	3.20 3.18	57,028	176	154	203	305	322	346	402	399	336	277	295	272	291	0.326

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

													AF 114 PP			
	RIVERSIDE				GENCY				B DEDAR	THENT		ORIGIN	OF WATE	k (in p	ercent):	
CITY				TYPE OF	AGENCT		MUNICIP	AL WATE	K DEPAK	IMENI		CUDEA	CE WATER		0	
				CACT		CVCTE	M SERVE						AND SP		100	
						21215	M SERVE	:5:				MELLS	ANU SPI	KINGS	100	
		#		INA	E117					v						
DAU #		• • • • • • • • • • • • • • • • • • • •	98					OUTSIDE		Х		SUIBLE	OF WATE) (in n	ercent):	
	ISUS POPUL	ATTON						ΤΥ				SOUNCE	OF MAIL	c (iii p	er cerit):	
												DUDCH	ASED		78	
		•			OTA	ER		•••••					SUPPLIE		22	
-1990		23,302			SERVICE	CONNEC	TIME	/1				SELF	SOPPLIE		22	
				COMMERC		CONNEC	ITONS	INDUSTR	TA1 .			GOVERNM	ENTAL .			
RESIDENT						366				0				21		
	d				ed				ed				ed			
Flat R	ate	0		Flat	Rate	0		rlat	Rate	0		rlat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2							** **						******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	E 770	5,330	64.0	53.0	59.0	100.0	117.0	164.0	226.0	10/- 0	144.0	122 0	112.0	92.0	1454.0	
	5,330	5,364		72.0	79.0	118.0	183.0	185.0	194.0	208.0	163.0	116.0	103.0	83.0	1588.0	
1981	5,364	•	84.0 72.0	68.0	74.0		137.0	149.0		207.0	143.0	139.0	89.0		1454.0	
1982	5,397	5,397							194.0							
1983	5,374	5,374	81.0	58.0	63.0	33.0	129.0	158.0		181.0	171.0	101.0	82.0		1322.0	
1984	5,406	5,406	80.0	100.0	132.0	148.0	196.0	186.0	214.0	195.0	179.0	141.0	95.0		1738.0	
1985	5,435	5,435	88.0	74.0	102.0	136.0	165.0	195.0	218.0	209.0	150.0	132.0	96.0	87.0	1652.0	
1986	5,513	5,513	95.0	70.0	83.0	113.0	168.0	185.0	192.0	205.0	143.0	118.0	111.0		1575.0	
1987	5,664	5,664	89.0	83.0	88.0	154.0	173.0	188.0	206.0	195.0	161.0	116.0	87.0		1621.0	
1988	5,664	5,664	82.0	93.0	125.0	120.0	165.0	181.0	203.0	198.0	171.0	145.0	101.0		1679.0	
1989	5,930	5,930	89.0	73.0	87.0	148.0	177.0	192.0	218.0	211.0	174.0	138.0	138.0		1771.0	
1990	6,050	6,050	99.0	85.0	124.0	131.0	165.0	192.0	225.0	206.0	190.0	161.0	129.0	117.0	1824.0	1
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.96	21,126	98	87	90	172	179	259	342	296	227	186	177	140	189	0.211
1981	3.95	21,201	128	121	120	186	278	291	295	316	256	177	162	126	205	0.230
1982	3.94	21,271	109	114	112	144	208	233	322	314	224	211	139	109	187	0.210
1983	3.93	21,120	124	98	96	52	197	249	296	276	270	154	129	108	171	0.192
1984	3.92	21,185	122	163	201	233	298	293	326	297	282	215	149	110	225	0.252
1985	3.91	21,238	134	124	155	213	251	306	331	317	235	200	151	132	213	0.239
1986	3.90	21,481	143	116	125	175	252	287	288	308	222	177	172	138	201	0.225
1987	3.89	22,006	130	135	129	233	254	285	302	286	244	170	132	119	202	0.226
1988	3.87	21,942	121	146	184	182	243	275	298	291	260	213	153	140	210	0,235
1989	3.86	22,906	125	114	123	215	249	279	307	297	253	194	201	177	212	0.237
1990	3.85	23,302	137	130	172	187	228	275	311	285	272	223	185	162	214	0.240
AVERAGE			125	123	137	181	240	276	311	299	250	193	159	133	203	0.227
													,			,

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	RIVERSIDE			WATER A	AGENCY		RIVERS	DE, CIT	Y OF			ORIGIN	OF WATE	R (in p	percent):	
CITY	RIVERSIDE			TYPE O	AGENCY		MUNICIE	PAL WATE	R DEPAR	RTMENT						
SYSTEM #	f		. 33031									SURF/	CE WATE	R	. 8	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS.	92	
PLANNING	SUBAREA	#	SANTA	ANA												
DAU #			. 98		ENT	IRE CIT	γ									
						IRE CIT						SOURCE	OF WATE	R (in p	percent):	
	ISUS POPUL				POR	RTION OI	THE C	TY	• • • • • • •	•						
	• • • • • • • • • • • • • • • • • • • •	-			OTE	ER	• • • • • • •	• • • • • • •		•			IASED			
1990	• • • • • • • • • • • • • • • • • • • •	226,505										SELF	SUPPLIE	D	. 92	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMER				INDUST	RIAL:			GOVERNA				
Metere	ed	6,700		Hete	red	4,578		Meter	red	. NA			ed			
Flat R	late	0		Flat	Rate	. 0		Flat	Rate	, NA		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER II	TO SYS	TEM (MII	LION G	VLLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	50,999														18600.0	
1981	52,087	50,171	927.0	803.0	885.0	1215.0	1483.0	1944.0	2129.5	2069.0	1753.0	1294.0	1130.0	900.0	16532.5	
1982	52,058	50,161	795.0	775.0	848.0	1020.0	1416.0	1527.0	1990.0	1947.0	1518.0	1457.9	992.0	858.0	15143.9	
1983	51,024	49,041	958.0	685.0	741.0	960.0	1316.0	1606.0	1982.0	1671.0	1659.6	1137.9	978.0	863.9	14558.4	
1984	51,258	49,284	974.0	1120.0	1420.0	1528.7	1946.0	1867.0	2149.6	2072.0	1818.0	1556.7	1078.0	827.6	18357.6	
1985	52,000	50,003	911.0	904.0	1135.0	1531.0	1809.0	2062.0	2329.6	2232.0	1761.0	1603.0	1158.0	1063.0	18498.6	
1986	53,647	51,606	1157.0	884.0	1067.0	1384.0	1953.0	2100.0	2292.0	2374.0	1785.0	1569.0	1391.0	1217.0	19173.0	
1987	54,625	52,540	1137.0	1055.0	1116.0	1752.0	1951.0	2136.0	2253.0	2306.0	1968.0	1471.0	1097.0	1070.0	19312.0	
1988	54,845	52,509	1099.0	1231.0	1585.0	1545.0	2019.0	2234.0	2470.0	2341.0	2054.0	1800.0	1342.0	1266.0	20986.0	
1989	64,000	61,330	1177.0	1039.0	1441.0	1850.0	2136.8	2279.0	2654.0	2534.0	2193.0	1816.0	1701.0	1549.0	22369.8	
1990	66,348	63,348	1246.0	1098.0	1471.0	1573.0	2025.0	2286.0	2578.0	2466.0	2261.0	2023.0	1715.0	1475.0	22217.0	
	DEDOMIO	4150405														
YEAR	PERSONS	AVERAGE					DED CAL	DITA UA	TER USE	(mod)	a				ANNUALLY	
OF	CONNEC-	POPULA- TION					PER CA	TIN WA	IER USE	(gpcu)	, 3				gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	/3	/4
*******	1104	JERVED	•••••													
1980	3.48	177,441	166	144	147	255	271	368	438	422	328	350	282	258	287	0.322
1981	3.49	181,728	165	158	157	223	263	357	378	367	322	230	207	160	249	0.279
1982	3.50	182,128	141	152	150	187	251	279	352	345	278	258	182	152	228	0.255
1983	3.51	179,002	173	137	134	179	237	299	357	301	309	205	182	156	223	0.250
1984	3.52	180,316	174	214	254	283	348	345	385	371	336	278	199	148	279	0.312
1985	3.53	183,427	160	176	200	278	318	375	410	393	320	282	210	187	276	0.309
1986	3.54	189,753	197	166	181	243	332	369	390	404	314	267	244	207	277	0.310
1987	3.55	193,738	189	194	186	301	325	368	375	384	339	245	189	178	273	0.306
1988	3.56	195,046	182	218	262	264	334	382	409	387	351	298	229	209	295	0.330
1989	3.57	228,220	166	163	204	270	302	333	375	358	320	257	248	219	269	0.301
1990	3.58	237,232	169	165	200	221	275	321	351	335	318	275	241	201	257	0.287
AVERAGE			171	172	189	246	296	345	384	370	321	268	220	189	265	0.297
A FENNAL			""	112	107	240	270	545	304	370	321	200	220	107	200	3.27

commercial and industrial combined.

1/ Number of services estimated, 3/ gpcd - gallons per capita daily

4/ afpca - acre-feet per capita annually

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

												SURF#	ACE WATER	R	0	A J
		N				SYSTE	EM SERVE	is:				WELLS	S AND SPE	RINGS	100	
		#														
DAU #		•••••	100					• • • • • • • •								
								OUTSIDE				SOURCE	OF WATER	R (in p	ercent):	:
	NSUS POPUI							ITY								
	• • • • • • • •				OTHE	£R	• • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	x			ASED			
1990	• • • • • • • • • • • • • • • • • • • •	. 8,000										SELF	SUPPLIED	٥	100	
SCOTDENT					SERVICE	CONNEC										
RESIDENT	mal: ed	E 447		COMMERC		454		INDUSTRI				GOVERNM				
	Rate				'ed	151			ed	0			ed	1		
rtat k	ate			riat	Rate	0		Flat F	Rate	0		Flat /	Rate	0		
YEAR		SERVICE CTIONS /2			1	IOTAL W	ATER IN	ITO SYSTE	EM (MILI	LION GA	LLONS)					
RECORD	SYSTEM		JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	L
1980	3,950	3,950	-		-	-			59.0	57.0	48.0	42.0	37.0	36.0		
1981	3,960	3,960	36.0	37.0	36.0	41.0	57.0	67.0	-	-	40.0	42.0	37.0	36.0		
1982	/5		-	-	-	-	-	-	_	_					-	
1983	4,500	4,500	-		-	-	-	-	76.0	58.0	53.0	45.0	38.0	36.0		
1984	4,530	4,530	35.0	31.0	36.0	39.0	59.0	56.0	39.0	38.0	36.0	30.0	20.0	22.0	441.0	
1985	4,602	4,602	21.0	21.0	17.0	22.0	37.0	47.0	-		-	-	20.0	22.0	441.0	
1986	4,732	4,732	18.0	16.0	17.0	20.0	41.0	50.0	48.0	47.0	34.0	20.0	17.0	18.0	346.0	
1987	4,805	4,805		-	-		-	-	-	-	34.0	-	17.0	18.0	340.0	
1988	5,032	5,032	23.0	19.0	18.0	21.0	29.0	38.0	42.0	35.0	28.0	26.0	19.0	20.0	318.0	
1989	5,151	5,151	25.0	21.0	20.0	25.0	32.0	39.0	25.0	21.0	20.0	25.0	32.0	48.0	333.0	
1990	5,300	5,300	45.0	37.0	29.0	24.0	21.0	21.0	45.0	37.0	29.0	24.0	21.0	21.0	354.0	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-				,	CAD	!!		15.47						
OF	CONNEC-	TION				٢	ER GAP	ITA WATE	R USE (gpcd)/3	,			A	NNUALLY	
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	а
1980	1.27	5,000	-	-		-			381	368	320	271	247	232		
1981	1.29	5,109	227	259	227	267	360	437	-	-			-	-		
1982	1.31		-	-	-	-	-	-	-	-	-		-		_	
1983	1.34	6,025	-	-	-	-	-	-	407	311	293	241	210	193	-	
1984	1.36	6,176	183	173	188	211	308	302	204	198	194	157	108	115	196	0.
1985	1.39	6,386	106	117	86	115	187	245	-	_		-		-	-	
1986	1.41	6,682	87	86	82	100	198	249	232	227	170	97	85	87	142	0.
1987	1.44	6,902	-	-	-	-	-	-	-	-	-			-	-	
1988	1.46	7,350	101	89	79	95	127	172	184	154	127	114	86	88	119	0.
1989	1.49	7,650	105	98	84	109	135	170	105	89	87	105	139	202	119	0.
1990	1.51	8,000	181	165	117	100	85	88	181	149	121	97	88	85	121	0.
VERAGE			142	141	123	142	200	238	242	214	187	154	138	143	139	0.

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

1980 7,900 7,900 /5	28 72
#YDROLOGIC REGION	72 28 72 NNUAL
SANTA ANA 100 ENTIRE CITY 100 ENTIRE	28 72 NNUAL
DAU # 100 ENTIRE CITY LINGUISTICE X SOURCE OF MATER (in percentage of the content of the city plus outside	28 72
ENTIRE CITY PLUS OUTSIDE X SOURCE OF MATER (in percentage) PORTION OF THE CITY	28 72
PORTION OF THE CITY	28 72
1980	72 NNUAL
SERVICE CONNECTIONS /1 RESIDENTIAL: COMMERCIAL: INDUSTRIAL: GOVERNMENTAL: Metered 10,177 Metered 1,047 Metered 433 Metered 33 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 YEAR ACTIVE SERVICE TOTAL MATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC / 1980 7,900 7,900 /5	72 NNUAL
SERVICE CONNECTIONS /1 RESIDENTIAL: COMMERCIAL: INDUSTRIAL: GOVERNMENTAL: Metered 10,177	NNUAL.
RESIDENTIAL: COMMERCIAL: INDUSTRIAL: GOVERNMENTAL: Metered	-
Metered	-
Flat Rate 0 YEAR ACTIVE SERVICE OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC // 1980 7,900 7,900 /5	-
YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC // 1980 7,900 7,900 /5	-
OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC // 1980 7,900 7,900 /5	-
OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC // 1980 7,900 7,900 /5	-
RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1/1980 7,900 7,900 1/5	-
1980 7,900 7,900 /5	-
1981 7,925 7,925 - <t< td=""><td>-</td></t<>	-
1982 8,072 8,072 124.8 113.2 118.8 116.9 145.5 200.9 308.4 305.0 216.4 226.7 150.2 148.5 21 1983 8,228 8,072 149.0 131.0 115.0 156.0 225.0 277.0 291.0 291.0 256.0 213.0 160.0 133.0 23 1984 8,890 8,881 162.0 184.0 234.0 248.0 311.0 295.0 335.0 310.0 274.0 242.0 181.0 138.0 29 1985 9,329 9,329 -	-
1983 8,228 8,072 149.0 131.0 115.0 150.0 225.0 277.0 291.0 291.0 256.0 213.0 160.0 133.0 23 23 198.0 295.0 235.0 210.0 295.0 335.0 310.0 276.0 240.0 181.0 133.0 23 29 290.0 311.0 295.0 335.0 310.0 276.0 240.0 181.0 183.0 29 198.0 290.0 311.0 295.0 376.0 375.0 342.0 245.0 241.0 191.0 290.0 315.0 367.0 376.0 351.0 245.0 245.0 191.0 328.0 322.0 367.0 376.0 375.0 342.0 245.0 191.0 328.0 329.0 367.0 376.0 351.0 369.0 370.0 376.0 351.0 267.0 193.0 221.0 328.0 328.0 369.0 370.0 376.0 351.0 267.0 193.0 221.0 328.0 328.0	
1984 8,890 8,881 162.0 184.0 234.0 248.0 311.0 295.0 335.0 310.0 274.0 242.0 181.0 186.0 295.0 335.0 310.0 274.0 242.0 181.0 188.0 295.0 335.0 310.0 274.0 242.0 181.0 183.0 295.0 335.0 310.0 274.0 242.0 181.0 188.0 295.0 322.0 367.0 374.0 375.0 342.0 245.0 242.0 191.0 321.0 322.0 367.0 374.0 375.0 342.0 245.0 242.0 191.0 321.0 322.0 367.0 376.0 375.0 342.0 245.0 242.0 191.0 321.0 322.0 369.0 370.0 376.0 351.0 267.0 193.0 221.0 322.0 367.0 376.0 351.0 267.0 193.0 221.0 322.0 369.0 370.0 376.0 351.0 267.0 193.0 221.0 322.0	75.3
1985 9,329 9,329 - <t< td=""><td>77.0</td></t<>	77.0
1986 9,684 9,676 200.0 150.0 173.0 238.0 322.0 367.0 374.0 375.0 342.0 245.0 242.0 191.0 32 1987 10,425 10,414 186.0 173.0 193.0 209.0 315.0 369.0 370.0 376.0 351.0 267.0 193.0 221.0 32 1988 10,564 10,552 179.0 150.0 170.0 374.0 218.0 401.0 302.0 337.0 392.0 300.0 235.0 250.0 249.0 33 1989 10,747 10,727 176.0 181.0 248.0 205.0 351.0 390.0 422.0 448.0 379.0 343.0 317.0 388.0 38	14.0
1987 10,425 10,414 186.0 173.0 193.0 209.0 315.0 369.0 370.0 376.0 351.0 267.0 193.0 221.0 32 1988 10,564 10,552 179.0 150.0 170.0 374.0 218.0 401.0 302.0 337.0 392.0 300.0 235.0 249.0 33 1989 10,747 10,727 176.0 181.0 248.0 205.0 351.0 390.0 422.0 448.0 379.0 343.0 317.0 388.0 38	-
1988 10,564 10,552 179.0 150.0 170.0 374.0 218.0 401.0 302.0 337.0 392.0 300.0 235.0 249.0 33 1989 10,747 10,727 176.0 181.0 248.0 205.0 351.0 390.0 422.0 448.0 379.0 343.0 317.0 388.0 38	9.0
1989 10,747 10,727 176.0 181.0 248.0 205.0 351.0 390.0 422.0 448.0 379.0 343.0 317.0 388.0 38	23.0
	07.0
1990 12,812 12,688 345.0 223.0 339.0 332.0 374.0 442.0 469.0 487.0 389.0 386.0 340.0 271.0 43	8.0
	7.0
PERSONS AVERAGE	
	JALLY
	pcd afp
RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT MOV DEC	/3 /4
1980 5.08 40,165	
1701 5.05 57,771	
	182 0.20
1765 41.07 43,030	
1986 4.86 47,025 137 114 119 169 221 260 257 257 242 168 172 131	188 0.21
1987 4.82 50,227 119 123 124 139 202 245 238 241 233 171 128 142	176 0.19
1988 4.78 50,495 114 102 109 247 139 265 193 215 259 192 155 159	179 0.20
1989 4.74 50,961 111 127 157 134 222 255 267 284 248 217 207 246	207 0.23
1990 4.70 60,265 185 132 181 184 200 244 251 261 215 207 188 145	200 0 00
AVERAGE 125 120 131 161 188 236 241 245 224 185 155 143	200 0.22

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

CITY	SAN BERNA	RDINO						CITY O			(DRIGIN (OF WATE	R (in p	ercent):	
	COLTON			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
												SURFA	CE WATE	R	0	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	SANTA A	WA												
DAU #			100		ENT	IRE CIT	Υ			X						
					ENT:	IRE CIT	Y PLUS	OUTSIDE			1	SOURCE (OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		21,310			ОТН	ER						PURCH	ASED		. 0	
1990		40,213										SELF S	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	7,101		Meter	ed	789		Meter	ed	NA		Meter	ed	75		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	NA		Flat I	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,500	6,500	94.0	107.0	93.0	133.0	146.0	277.0	267.0	297.6	251.7	161.9	140.1	153.2	2121.5	
1981	6,507		100.7					299.8							2101.2	
1982	6,600	6,600		108.0		134.4		279.1				175.3	121.4		2035.8	
1983	6,703	6,703	113.9	112.6	95.5	139.4	150.4		249.6			185.2			2066.5	
1984	6,974	6,974	134.3	145.2		229.5					281.9	219.0	188.3	130.0	2546.7	
1985	6,999	6,999	131.2	161.4	144.2		170.4	429.3			184.1	344.2		218.9	2802.1	
1986	7,273	7,273	178.4	97.4				275.7			184.8		191.3		2848.6	
1987	7,273	•		171.2		314.2		329.8		352.7					3021.4	
	•	7,271	211.4	196.8				349.4			312.3		191.7	167.8		
1988	7,926	7,926	191.0												3274.5	
1989	8,081	8,081	175.1	200.6				373.9							3450.6	
1990	8,100	8,100	182.5	183.6	206.1	240.4	311.8	20.4	428.7	332.0	242.4	302.6	244.6	151.7	3082.8	
	PERSONS	AVERAGE														
YEAR	PERSONS PER	AVERAGE POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
YEAR OF							PER CAP	TTA WAT	er use	(gpcd)/	3				ANNUALLY gpcd	afpc
OF	PER	POPULA-	JAN	FEB	MAR	APR	PER CAP	TAW ATI	ER USE	(gpcd)/	3 SEP	ост	NOV	DEC		afpc
OF ECORD	PER CONNEC- TION	POPULA- TION SERVED				APR	MAY	JUN	JUL	AUG	SEP			DEC	gpcd /3	/4
OF RECORD	PER CONNEC- TION 3.28	POPULA- TION SERVED	142	173	141	APR 208	MAY 221	JUN 433	JUL 404	AUG 450	SEP 394	245	219	DEC 232	gpcd /3 273	0.305
OF ECORD 1980 1981	PER CONNEC- TION 3.28 3.45	POPULA- TION SERVED 21,310 22,430	142 145	173 185	141 141	APR 208 215	MAY 221 227	JUN 433 446	JUL 404 359	AUG 450 398	SEP 394 348	245 217	219 194	DEC 232 205	gpcd /3 273 257	0.305 0.287
OF ECORD 1980 1981 1982	PER CONNECTION 3.28 3.45 3.62	POPULA- TION SERVED 21,310 22,430 23,864	142 145 127	173 185 162	141 141 124	APR 208 215 188	221 227 198	JUN 433 446 390	JUL 404 359 378	AUG 450 398 359	SEP 394 348 325	245 217 237	219 194 170	232 205 146	gpcd /3 273 257 234	0.305 0.287 0.262
OF ECORD 1980 1981 1982 1983	PER CONNECTION 3.28 3.45 3.62 3.78	POPULA- TION SERVED 21,310 22,430 23,864 25,366	142 145 127 145	173 185 162 159	141 141 124 121	APR 208 215 188 183	221 227 198 191	JUN 433 446 390 322	JUL 404 359 378 317	450 398 359 334	394 348 325 304	245 217 237 236	219 194 170 193	232 205 146 171	gpcd /3 273 257 234 223	0.305 0.287 0.262 0.250
OF ECORD 1980 1981 1982 1983 1984	PER CONNECTION 3.28 3.45 3.62 3.78 3.95	POPULA- TION SERVED 21,310 22,430 23,864 25,366 27,568	142 145 127 145 157	173 185 162 159 182	141 141 124 121 199	208 215 188 183 278	221 227 198 191 260	JUN 433 446 390 322 291	JUL 404 359 378 317 375	450 398 359 334 310	394 348 325 304 341	245 217 237 236 256	219 194 170 193 228	232 205 146 171 152	gpcd /3 273 257 234 223 253	0.305 0.287 0.262 0.250 0.283
0F ECORD 1980 1981 1982 1983 1984 1985	PER CONNECTION 3.28 3.45 3.62 3.78 3.95 4.12	POPULA- TION SERVED 21,310 22,430 23,864 25,366 27,568 28,846	142 145 127 145 157 147	173 185 162 159 182 200	141 141 124 121 199 161	APR 208 215 188 183 278 220	221 227 198 191 260 191	JUN 433 446 390 322 291 496	JUL 404 359 378 317 375 335	450 398 359 334 310 481	394 348 325 304 341 213	245 217 237 236 256 385	219 194 170 193 228 114	232 205 146 171 152 245	gpcd /3 273 257 234 223 253 266	0.305 0.287 0.262 0.250 0.283 0.298
1980 1981 1982 1983 1984 1985 1986	PER CONNECTION 3.28 3.45 3.62 3.78 3.95 4.12 4.29	POPULA- TION SERVED 21,310 22,430 23,864 25,366 27,568 28,846 31,202	142 145 127 145 157 147 184	173 185 162 159 182 200	141 141 124 121 199 161 149	208 215 188 183 278 220 212	221 227 198 191 260 191 326	JUN 433 446 390 322 291 496 295	JUL 404 359 378 317 375 335 411	450 398 359 334 310 481 359	394 348 325 304 341 213 197	245 217 237 236 256 385 336	219 194 170 193 228 114 204	232 205 146 171 152 245 199	9pcd /3 273 257 234 223 253 266 250	0.305 0.287 0.262 0.250 0.283 0.298 0.280
1980 1981 1982 1983 1984 1985 1986 1987	PER CONNECTION 3.28 3.45 3.62 3.78 3.95 4.12 4.29 4.46	POPULA- TION SERVED 21,310 22,430 23,864 25,366 27,568 28,846 31,202 32,419	142 145 127 145 157 147 184 210	173 185 162 159 182 200 111 189	141 141 124 121 199 161 149 134	208 215 188 183 278 220 212 323	221 227 198 191 260 191 326 255	JUN 433 446 390 322 291 496 295 339	JUL 404 359 378 317 375 335 411 327	450 398 359 334 310 481 359 351	394 348 325 304 341 213 197 332	245 217 237 236 256 385 336 282	219 194 170 193 228 114 204 153	232 205 146 171 152 245 199 167	9pcd /3 273 257 234 223 253 266 250 255	0.305 0.287 0.262 0.250 0.283 0.298 0.280 0.286
1980 1981 1982 1983 1984 1985 1986 1987 1988	PER CONNECTION 3.28 3.45 3.62 3.78 3.95 4.12 4.29 4.46 4.63	21,310 22,430 23,864 25,366 27,568 28,846 31,202 32,419 36,676	142 145 127 145 157 147 184 210 168	173 185 162 159 182 200 111 189 185	141 141 124 121 199 161 149 134 173	208 215 188 183 278 220 212 323 273	221 227 198 191 260 191 326 255 253	JUN 433 446 390 322 291 496 295 339 318	JUL 404 359 378 317 375 335 411 327 359	450 398 359 334 310 481 359 351 308	394 348 325 304 341 213 197 332 284	245 217 237 236 256 385 336 282 277	219 194 170 193 228 114 204 153 174	232 205 146 171 152 245 199 167 154	9pcd /3 273 257 234 223 253 266 250 255 245	0.305 0.287 0.262 0.250 0.283 0.298 0.286 0.286
0F RECORD 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	PER CONNECTION 3.28 3.45 3.62 3.78 3.95 4.12 4.29 4.46 4.63 4.80	21,310 22,430 23,864 25,366 27,568 28,846 31,202 32,419 36,676 38,756	142 145 127 145 157 147 184 210 168 146	173 185 162 159 182 200 111 189 185 185	141 141 124 121 199 161 149 134 173	208 215 188 183 278 220 212 323 273 261	221 227 198 191 260 191 326 255 253 248	JUN 433 446 390 322 291 496 295 339 318 322	JUL 404 359 378 317 375 335 411 327 359 344	450 398 359 334 310 481 359 351 308 285	394 348 325 304 341 213 197 332 284 285	245 217 237 236 256 385 336 282 277 272	219 194 170 193 228 114 204 153 174 219	232 205 146 171 152 245 199 167 154 213	9pcd /3 273 257 234 223 253 266 250 255 245	0.305 0.287 0.262 0.250 0.283 0.298 0.280 0.286 0.274 0.273
0F RECORD 1980 1981 1982 1983 1984 1985 1986 1987 1988	PER CONNECTION 3.28 3.45 3.62 3.78 3.95 4.12 4.29 4.46 4.63	21,310 22,430 23,864 25,366 27,568 28,846 31,202 32,419 36,676	142 145 127 145 157 147 184 210 168	173 185 162 159 182 200 111 189 185	141 141 124 121 199 161 149 134 173	208 215 188 183 278 220 212 323 273	221 227 198 191 260 191 326 255 253	JUN 433 446 390 322 291 496 295 339 318	JUL 404 359 378 317 375 335 411 327 359	450 398 359 334 310 481 359 351 308	394 348 325 304 341 213 197 332 284	245 217 237 236 256 385 336 282 277	219 194 170 193 228 114 204 153 174	232 205 146 171 152 245 199 167 154	9pcd /3 273 257 234 223 253 266 250 255 245	0.305 0.287 0.262 0.250 0.283 0.298 0.280 0.286 0.274

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN BERNA							NDA, CI				ORIGIN	OF WATE	(in p	ercent):	
	LOMA LIND			TYPE OF	AGENCY		MUNICIF	AL WATE	R DEPAR	TMENT						
													CE WATE		0	
						SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
		#		NA												
DAU #		•••••	100							v		0011005	OF LIATE			
017V OF1	SUS POPUL	ATION						OUTSIDE		Х		SOURCE	OF WATE	c (in p	ercent):	
												DUDCH	ASED		0	
					OIN	EK	•••••	•••••					SUPPLIE		100	
1990	********	11,041			CEDVICE	CONNEC	ZIONS	/1				SELF	SOFFLIE	·····	100	
RESIDENT	141 .			COMMERC		COMMEC	TONS	INDUSTR	TAL -			GOVERNM	ENTAL -			
	d	3 446			ed	200			ed	NA			ed	NA		
	ate	•			Rate	200			Rate	NA.			Rate	NA.		
riat K	ate			rtet	Mate	•		rtat	Kale	no.		rial	Kale	THE .		
YEAR		SERVICE				TOTAL W	ATER II	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,434	2,424	/5	-	-	-	-	-	117.0	137.0	100.0	81.0	68.0	56.0	-	
1981	2,434	2,424	47.0	41.0	46.0	62.0	81.0	107.0	116.0	108.0	94.0	69.0	64.0	53.0	888.0	
1982	2,599	2,450	42.0	42.0	46.0	56.0	66.0	76.0	131.0	126.0	101.0	83.0	59.0	52.0	880.0	
1983	2,832	2,683	55.0	43.0	47.0	55.0	81.0	72.0	103.0	92.0	95.0	68.0	56.0	47.0	814.0	
1984	2,832	2,683	56.0	59.0	77.0	86.0	106.0	103.0	113.0	120.0	113.0	87.0	60.0	49.0	1029.0	
1985	3,004	2,855	53.0	51.0	60.0	86.0	108.0	118.0	138.0	131.0	98.0	90.0	65.0	58.0	1056.0	
1986	3,260	3,111	68.0	51.0	62.0	87.0	119.0	133.0	149.0	149.0	93.0	96.0	86.0	93.0	1186.0	
1987	3,392	3,243	71.0	67.0	69.0	109.0	124.0	139.0	146.0	150.0	129.0	101.0	72.0	71.0	1248.0	
1988	3,788	3,639	-	-	-	-	-	-	158.0	151.0	138.0	120.0	84.0	79.0	-	
1989	3,788	3,639	72.0	67.0	91.0	114.0	130.0	144.0	173.0	168.0	145.0	123.0	109.0	102.0	1438.0	
1990	4,429	4,280	72.0	70.0	95.0	88.0	130.0	148.0	170.0	162.0	151.0	131.0	112.0	94.0	1423.0	
		AVERAGE									_				ANNUALLY	
YEAR	PER CONNEC-	POPULA- TION				'	PER UAI	PITA WAT	EK USE	(gpca)/	3					-6
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afpca /4
		SERVED	JAM	LED	PAR	AFR	mni	JUN	JUL	AUG	3CF					
1980	4.71	11,458	-	-	-	-	-	-	329	386	291	228	198	158	-	-
1981	4.65	11,327	134	129	131	182	231	315	330	308	277	197	188	151	215	0.241
1982	4.60	11,955	113	125	124	156	178	212	353	340	282	224	165	140	202	0.226
1983	4.55	12,875	138	119	118	142	203	186	258	231	246	170	145	118	173	0.194
1984	4.49	12,723	142	160	195	225	269	270	287	304	296	221	157	124	222	0.248
1985	4.44	13,334	128	137	145	215	261	295	334	317	245	218	162	140	217	0.243
1986	4.38	14,295	153	127	140	203	269	310	336	336	217	217	201	210	227	0.255
1987	4.33	14,691	156	163	152	247	272	315	321	329	293	222	163	156	233	0.261
1988	4.28	16,203	-	-	-	•	-	-	315	301	284	239	173	157	-	-
1989	4.22	15,999	145	150	183	238	262	300	349	339	302	248	227	206	246	0.276
1990	4.17	18,468	126	135	166	159	227	267	297	283	273	229	202	164	211	0.236

^{1/} Number of services

137 138 150 196 241 275 319 316 273 219 180 157 216 0.242

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable

	SAN BERNA	RDINO		WATER A								ORIGIN	OF WATE	R (in p	percent):	
	ONTARIO			TYPE OF	AGENCY		MUNICIF	PAL WATE	R DEPAR	RTMENT						
SYSTEM #	f	• • • • • • • •	36034									SURFA	CE WATE	R	. 46	
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS.	. 54	
	SUBAREA			ANA												
DAU #	•••••	• • • • • • • •	100					CUTCING				ool in or	OF 114 TE	n 41-		
								CUTSIDE				SOURCE	OF WATE	R (in p	percent):	
	ISUS POPUL							ΤΥ								
					UIH	EK		•••••		•			ASED			
1990		133,179			SERVICE	CONNEC	TIME	/1				SELF	SUPPLIE	D	. 54	
RESIDENT	7.61 .			COMMERC		CONNEC	TIUNS	INDUSTR	TAL .			GOVERNM	ENTAL .			
		25 /72			ed	1 072			ed	456			ed	160		
	d	•														
Flat K	ate	U		rtat	Rate	0		rtat	Rate	. 0		rtat	Rate	0		
YEAR OF	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	ALLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	24,882	24,882	369.0	371.0	394.0	608.0	631.0	809.0	983.0	1008.0	764.0	733.0	563.0	495.0	7728.0	
1981	34,000	34,000	458.0	394.0	436.0	500.0	748.0	989.0	1056.0	1016.0	839.0	627.0	536.0	438.0	8037.0	
1982	25,746	25,746	322.0	369.0	380.0	516.0	782.0	704.0	987.0	942.0	726.0	653.0	443.0	403.0	7227.0	
1983	26,195	26,195	424.0	325.0	323.0	441.0	649.0	769.0	1018.0	884.0	844.0	582.0	459.0	409.0	7127.0	
1984	28,000	27,992	475.0	544.0	668.0	717.0	972.0	914.0	1107.0	1035.0	897.0	779.0	533.0	419.0	9060.0	
1985	26,607	26,602	469.0	446.0	531.0	728.0	930.0	1020.0	1198.0	1096.0	841.0	786.0	570.0	516.0	9131.0	
1986	27,292	27,287	584.0	443.0	526.0	704.0	1011.0	1107.0	1193.0	1237.0	923.0	768.0	712.0	640.0	9848.0	
1987	27,770	27,767	611.0	566.0	627.0	867.0	1102.0	1096.0	1223.0	1309.0	1175.0	893.0	612.0	642.0	10723.0	
1988	28,246	28,244	610.0	565.0	626.0	898.0	1065.0	1149.0	1173.0	1312.0	1121.0	898.0	611.0	641.0	10669.0	
1989	27,576	27,573	706.0	612.0	798.0	1012.0	1147.0	1215.0	1366.0	1309.0	1167.0	1008.0	938.0	906.0	12184.0	
1990	28,019	28,018	759.0	643.0	770.0	852.0	1096.0	1104.0	1446.0	1364.0	1193.0	1107.0	909.0	858.0	12101.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	ER USE	(apcd)/	′ 3		_		ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.57	88,820	134	144	143	228	229	304	357	366	287	266	211	180	238	0.26
1981	3.69	125,393	118	112	112	133	192	263	272	261	223	161	142	113	176	0.19
1982	3.81	97,999	106	134	125	176	257	239	325	310	247	215	151	133	202	0.22
1983	3.92	102,809	133	113	101	143	204	249	319	277	274	183	149	128	190	0.21
1984	4.04	113,207	135	166	190	211	277	269	315	295	264	222	157	119	219	0.24
	4.16	110,725	137	144	155	219	271	307	349	319	253	229	172	150	226	0.25
1985	/ 20	116,806	161	135	145	201	279	316	329	342	263	212	203	177	231	0.25
1985 1986	4.20				166	237	291	299	323	346	321	236	167	170	241	0.26
		122,139	161	166	100											
1986	4.40	122,139 127,576	161 154	153	158	235	269	300	297	332	293	227	160	162	229	0.25
1986 1987	4.40 4.52	-				235	269 289	300 317	297 345	332 330	293 304	227 254	160 245	162 229	229 261	0.25
1986 1987 1988	4.40 4.52 4.63	127,576	154	153	158											

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SAN BERNA	RD I NO		WATER A	GENCY		RANCHO	CUCAMON	IGA CO.	WTR DIS	я.	ORIGIN	OF WATE	R (in p	ercent):	
CITY	RANCHO CU	CAMONGA		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT	ſ						
SYSTEM #	£		36018									SURF/	CE WATE	R	59	
HYDROLOG	GIC REGION		SOUTH (COAST		SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	41	
PLANNING	SUBAREA	#	SANTA A	NA.												
DAU #			100		ENT	IRE CIT	ΥΥ			. х						
					ENT	IRE CIT	Y PLUS	OUTSIDE		,		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION O	THE C	TY								
1980		55,250			OTH	IER						PURCH	IASED		46	
1990		101,409										SELF	SUPPL IE	D	54	
					SERVICE	CONNEC	CTIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNA	ENTAL:			
Metere	ed	30,985		Meter	ed	1,201		Meter	ed	411		Meter	ed	1,197		
Flat R	late	0		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR		SERVICE				TOTAL 1	ATER II	NTO SYST	EM (MIL	LION G	ILLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	16.573	16,573	261.0	252.0	282.0	459.0	452.0	724.0	893.0	1015.0	920.8	663.1	489.6	472.1	6883.6	
1981	16,870	16,870	376.0	331.0	332.0	483.0	616.0	909.0	987.0	960.0	791.0	540.0	505.0	381.0	7211.0	
1982	17,000	17,000						664.0							6413.0	
1983	18, 134	18,134						675.0							6144.4	
1984	19,633	19,633	361.4	459.2				864.5					433.1	305.8	8212.1	
1985	20,299		360.9												8688.8	
1986	21,708														9351.0	
1987	24,478														9928.0	
1988	26,844	26,844													11607.0	
1989	31,009														13604.0	
1990	32,567	32,567	740.0	631.0	838.0	932.0	1231.0	1366.0	1670.0	1597.0	1524.0	1307.0	1062.0	912.0	13810.0	
YEAR	PERSONS	AVERAGE POPULA-					DED CAL	PITA WAT	ED HEE	(anod)	n				ANNUALLY	
OF	CONNEC-	TION					PER UN	TIM WA	EK USE	(gpcu)	, ,					afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	/4
RECORD		SERVED	JAR		PVK	AFR	rvi	304	JUL	700	3LF		MOV.	DEC		/-
1980	3.33	55,250	152	157	165	277	264	437	521	593	556	387	295	276	341	0.382
1981	3.31	55,869	217	212	192	288	356	542	570	554	472	312	301	220	354	0.396
1982	3.29	55,926	177	191	179	260	344	396	554	517	393	340	221	187	314	0.352
1983	3.27	59,258	181	158	126	212	327	380	501	435	440	276	208	157	284	0.318
1984	3.25	63,724	183	248	281	342	444	452	549	503	479	358	227	155	353	0.395
1985	3.22	65,440	178	214	237	356	421	528	586	581	439	358	242	214	364	0.407
1986	3.20	69,505	235	170	209	312	433	524	561	609	444	328	323	261	369	0.413
1987	3.18	77,836	213	226	252	374	446		500	469	441	335	230	206	349	0.391
1988	3.16	84,769	192	262	320	311	416		548	513	479	426	286	250	375	0.420
1989	3.14	97,239	216	205	267		400		544	534	502	400	369	319	383	0.429
1990		101,409	235	222	267	306	392		531	508	501	416	349	290	373	0.418
,	0.11	,														
AVERAGE			198	206	227	309	386	469	542	529	468	358	277	230	351	0.393

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN BERNA	RDINO		WATER A								ORIGIN	OF WATE	R (in p	ercent):	
	REDLANDS			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
													CE WATE			
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	54	
PLANNING	SUBAREA	#		NA.												
DAU #			100													
					ENT	IRE CIT	Y PLUS	OUTSIDE		. х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		43,619			OTH	ER						PURCH	ASED	• • • • • • •	0	
1990		60,394										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	RIAL:			GOVERNM	ENTAL:			
Metere	d	16,530		Meter	ed	863		Meter	ed	NA		Meter	ed	116		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EN (WIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	15,562	13,484	202.0	198.0	208.0	368.0	392.0	685.0	849.0	726.0	584.0	580.0	467.0	429.n	5688.0	
1981	16,151	13,864	287.0	140.0	200.0			316.0	306.0							
1982	16,663	14,533	239.0				470.0			735.0					5170.0	
1983	15,909	14,016	268.0	180.0	186.0	286.0	515.0			715.0					5425.0	
			303.0					698.0		692.0			355.0			
1984	16,355	14,455				539.0		839.0		926.0		594.0			6845.0	
1985	17,859	16,026	265.0					896.0		960.0			499.0		7229.0	
1986	16, 173	14,356	380.0										370.0		7583.0	
1987	16,400	14,636	352.0			661.0				941.0		795.0			8203.0	
1988	17,012	15,176		444.0												
1989	17,611	15,413		332.0											8528.0	
1990	17,489	15,291	418.0	346.0	483.0	515.0	758.0	896.0	1047.0	965.0	896.0	751.0	609.0	236.0	8240.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TAW ATT	TER USE	(gpcd)/	3	-			ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000	7 07	E0 7/4	420	47/	477	2//	254	/E/	E//	145	707	372	309	275	710	0.347
1980	3.23	50,341	129	136	133	244	251	454	544	465	387				310	
1981	3.31	53,401	173	94	121	190	198	197	185	140	131	155	152	178	160	0.179
1982	3.38	56,285	137	143	146	213	269	343	406	421	357	258	185	135	252	0.282
1983	3.45	54,875	158	117	109	174	303	414	545	420	409	262	187	142	271	0.303
1984	3.52	57,582	170	197	248	309	353	404	388	388	355	302	206	124	288	0.322
1985	3.59	64,154	133	165	173	280	352	436	491	466	342	299	194	167	292	0.327
1986	3.66	59,254	207	163	192	286	426	504	502	523	400	308	281	207	334	0.374
1987	3.74	61,257	185	203	171	360	409	614	481	496	442	314	201	191	339	0.380
1988	3.81	64,759	170	236	299	290	397	462	500	475	445	396	261	217	347	0.389
1989	3.88	68,298	174		243	352	368	445	507	484	425	343	318	261	342	0.383
1990	3.95	69,075	195	179	226	249	354	432	489	460	432	351	294	250	327	0.366
AVERAGE			167	164	187	268	335	428	458	431	375	305	235	195	297	0.332

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily4/ afpca - acre-feet per capita annually

COUNTY	SAN BERNA	RDINO		WATER A	GENCY		RIALTO	, CITY O	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY	RIALTO			TYPE OF	AGENCY		MUNICI	PAL WATE	R DEPAR	TMENT						
SYSTEM #			36038									SURFA	CE WATE	R	97	
	IC REGION			COAST		SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	3	
PLANN ING	SUBAREA	#	SANTA A	NA												
DAU #			100		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE C	ITY								
1980		35,615			OTH	ER	• • • • • •					PURCH	ASED		0	
1990		72,388										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	10,087		Meter	ed	467		Meter	ed	12		Meter	ed	124		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
									~ ~~		1 0000					
YEAR	ACTIVE					TOTAL W	ATER I	NTO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2												250		
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	/ JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	8,246	8.246	118.0	102.0	116.0	159.0	156.0	287.0	360.0	306.0	243.0	177.0	181.0	154.0	2359.0	
1981	8,300	8,300	146.0					355.0						126.0		
1982	8,360	8,359	116.0					225.0					146.0	127.0		
1983	9, 124	9,123	134.0					266.0				142.0	119.0	97.0	2194.0	
1984	9,300		120.0					281.0			278.0			134.0	2684.0	
1985	9,500	•						334.0			269.0	237.0	177.0	161.0	2926.0	
1986	9,880							391.0				257.0	244.0	214.0	3286.0	
1987	9,990	•						394.0				267.0	191.0	187.0	3442.0	
1988	10,231	10,228	191.0					393.0		418.0			235.0	220.0	3677.0	
1989	10,347	10.344	194.0	171.0	222.0	293.0	319.0	361.0	431.0	407.0	352.0	297.0	268.0	254.0	3569.0	
1990	10,690							355.0								
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.32	35,615	107		105	149	141	269	326	277	227	160	169	139	181	0.203
1981	4.56	37,884	124		109	145	189		313	281	235	143	143	107	185	0.207
1982	4.81	40,208	93		91	118	161		253	258	201	164	121	102	154	0.173
1983	5.05	46,120	94		77	99	159		236	186	184	99	86	68	130	0.173
1983		•	79		120	131	191		225	207	188	155	108	88	149	0.140
1984	5.30	49,291	88		133	137	173		233	207	170	145	112	99	152	0.170
	5.55	52,680			94	128	184		231	244	183	145	142	121	157	0.176
1986	5.79	57,211	99	-	-					244	193	143	106	100	156	0.175
1987	6.04	60,298	108		102	168	196		213		180	156	122	110	157	0.176
1988	6.28	64,262	96		145	142	173		221	210			132	110		0.162
1989	6.53	67,528	93		106	145	152		206	194	174	142			145	
1990	6.77	72,388	86	95	104	114	156	163	181	176	164	137	122	104	134	0.150

^{1/} Number of services

191 145 124 105 155 0.173

98 108 134 171 214

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN BERNA	RDINO							LLEY WA	TER COM	PANY	ORIGIN	OF WATE	R (in p	ercent):	
	FONTANA			TYPE OF	AGENCY		INVESTO	R OWNED								
	f												CE WATE			
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	70	
PLANNING	SUBAREA	#		NA.												
DAU #			100													
					ENT	IRE CIT	Y PLUS	OUTSIDE	• • • • • •			SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		55,000			ОТНІ	ER			• • • • • • •	. х		PURC	ASED		100	
1990		75,000										SELF	SUPPLIE	D	. 0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNA	MENTAL:			
Metere	d	28,041		Meter	ed	205		Meter	ed	117		Meter	ed	229		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
1980	17,678	17,678	/5	-	-	•	•	•	-	-	•	•	-	-	4612.0	
1981	18,200	18,200	-	-	-	-	-	-	-	-	-	-	-	-	5321.0	
1982	18,254	18,254	-	-	-	-	-	-	-	-	-	-	-	-	4652.0	
1983	18,646	18,646	-	-	-	-	-	-	-	-	-	-	-	-	4560.0	
1984	19,352	19,352	-	-	-	-	-	-	-	-	-	-	-	-	5856.0	
1985	20,632	20,632	-	-	-	-	-	-	-	-	-	-	-	-	6004.0	
1986	22,705	22,705	421.0	316.0	411.0	495.0	679.0	802.0	785.0	916.0	709.0	549.0	545.0	435.0	7063.0	
1987	25,127	25,127	480.0	395.0	405.0	639.0	783.0	833.0	868.0	966.0	756.0	647.0	455.0	422.0	7649.0	
1988	26,087	26,087	-	-	-	-	-	-	-	-	-	-	-	-	8903.0	
1989	27,302	27,302	533.0	477.0	604.0	803.0	888.0	981.0	987.0	1020.0	994.0	768.0	1096.0	760.0	9911.0	
1990	28,000	28,000	-	-	-	•	•	•	•	•	•	•	-	•	10411.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION								10,			•		gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.11	55,000		-	-	-		-		-	•	•	-	•	230	0.257
1981	3.07	55,837	-	-	-	-	-	•	•	-	-	-	-	-	261	0.292
1982	3.02	55,213	•	-	-	-	-	-	-	-	-	-	-	-	231	0.259
1983	2.98	55,592	-	-	-	-	-	-	-	-	-	-	-	-	225	0.252
1984	2.94	56,859	-	-	-	-	-	-	-	-	-	-	-	-	282	0.316
1985	2.89	59,727	-	-	-	-	•	-	-	-	-	-	•	-	275	0.308
1986	2.85	64,746	210	174	205	255	338	413	391	456	365	274	281	217	299	0.335
1987	2.81	70,566	219	200	185	302	358	393	397	442	357	296	215	193	297	0.333
1988	2.77	72,133	-	-	-	-		-	-	-	-	-	-	-	338	0.379
1900	2 72	74,312	231	229	262	360	385	440	428	443	446	333	492	330	365	0.409
1989	2.72	14,312	21	267	202	300	303	440	420	773	440	333	472	330	303	
	2.68	75,000	٠.	-	-	-	-	-	-	-	-	-	-	-	380	0.426

^{1/} Number of services

^{3/} gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data unavailable.

COUNTY	SAN BERNA	RDINO			GENCY							ORIGIN	OF WATE	R (in p	ercent):	
CITY	UPLAND			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #			36050									SURFA	CE WATE	R	81	
HYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	19	
PLANNING	SUBAREA	#	SANTA A	INA												
DAU #			100		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		47,647			ОТН	ER						PURCH	ASED		81	
1990		63,374										SELF	SUPPLIE	D	19	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	NA		Meter	ed	NA		Meter	ed	NA		Meter	ed	NA		
	ate				Rate			Flat	Rate	NA		Flat	Rate	NA		
rtac n		nar.				1.01										
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2									,					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	12,672	12,481	220.0	191.0	215.0	349.0	324.0	537.0	696.0	627.0	518.0	521.0	451.0	369.0	5018.0	
1981	13,010	12,841	315.0	258.0	264.0	382.0	452.0	697.0	765.0	720.0	612.0	449.0	412.0	294.0	5620.0	
1982	13,258	13,109	220.0	223.0	228.0	304.0	415.0	453.0	696.0	682.0	538.0	502.0	297.0	245.0	4803.0	
1983	13,426	13,261	270.0	206.0	202.0	301.0	253.0	471.5	691.0	557.0	563.0	384.0	310.0	243.0	4451.5	
1984	13.870	13.700	309.0	374.0	430.0	463.0	622.0	607.0	790.0	765.0	717.0	590.0	396.0	273.0	6336.0	
1985	14,030	13,865	281.0	289.0	360.0	487.0	565.0	558.0	802.0	778.0	632.0	525.0	358.0	306.0	5941.0	
1986	14,659	14,494	338.0	252.0	337.0	472.0	666.0	745.0	821.0	872.0	591.0	432.0	441.0	374.0	6341.0	
1987	15,810	15,715	334.0		338.0				726.0			523.0	344.0	344.0	6322.0	
1988	16,418	16.233	321.0		496.0		650.0	721.0	843.0	730.0	690.0	608.0	432.0	335.0	6688.0	
1989	16,488	,										600.0	500.0	450.0	6921.0	
1990	16,525											640.0				
	DEBEONE	AVERAGE														
YEAR	PER	POPULA-					DED CAD	TTA WAT	ER USE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					I EK GA		EK OOL	(Spea))	-				gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
	1104				FIRM	Ark										
1980	3.82	48,376	147		143	240	216	370	464	418	357	347	311	246	284	0.318
1981	3.82	49,718	204	185	171	256	293	467	496	467	410	291	276	191	310	0.347
1982	3.83	50,718	140	157	145	200	264	298	443	434	354	319	195	156	259	0.291
1983	3.83	51,414	169	143	127	195	159	306	434	349	365	241	201	152	237	0.266
1984	3.83	53,170	187	243	261	290	377	381	479	464	450	358	248	166	326	0.366
1984			168	192	216	302	339	345	481	466	391	315	222	183	302	0.339
1985	3.84	53,839	194	160	193	279	382	441	470	500	350	247	261	214	309	0.346
	3.84	56,310									-	278	189	183	285	0.319
1987	3.85	60,794	177	192	179	306	346	389	385	417	373					0.319
1988	3.85	63,198	164		253	253	332	380	430	373	364	310	228	171	290	
1989	3.85	63,532	175	166	211	311	332	371	445	393	374	305	262	228	298	0.334
1990	3.86	63,740	171	131	205	230	277	312	412	367	361	324	269	223	274	0.307
AVERAGE			172	174	191	260	301	369	449	422	377	303	242	192	289	0.323

^{1/} Service connections cannot be broken into classificatios 3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	RIVERSIDE			WATER A					D DEDAG	THEVE		ORIGIN	OF WATE	R (in p	ercent):	
CITY				TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	IMENI		~~~				
				00407		OVOTE	M SERVE						CE WATE			
						21215	M SEKVE	:5:				MELLS	ANU SPI	KINGS	70	
		#		NA	ENT	IDE CIT	v									
DAU #	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	104					OUTSIDE		v		cor in or	OF LIATE			
										Х		SOURCE	OF WATE	K (in p	ercent):	
	SUS POPUL							TY				DI IDOII	ACED		70	
	• • • • • • • • • • • • • • • • • • • •				OTH	EK		******	• • • • • • •				ASED			
1990		36,094			CED//105	COMME	TIONE	14				SELF	SUPPLIE	J	70	
					SERVICE	CONNEC	TIONS	INDUSTR	7.61 -			GOVERNM	FNTAL -			
RESIDENT		7 20/		COMMERC		1 021				384				***		
	d				ed				ed	304			ed	NA		
Flat R	ate	0		TELT	Rate	0		rtat	Rate	U		reat	Rate	NA		
YEAR OF	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	NAL	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	7,505	7,487	66.0	67.0	54.0	64.0	72.0	81.0	122.0	121.0	138.0	110.0	107.0	79.0	1081.0	
1981	7,647	7,629	52.0	43.0	45.0	74.0	101.0			132.0	181.0	81.0	66.0		1134.0	
1982	7,793	7,775	49.0	37.0	50.0	71.0	88.0	112.0	140.0	134.0	97.0	86.0	63.0	45.0	972.0	
1983	7,900	7,882	53.0	45.0	50.0	62.0	93.0	121.0	163.0	140.0	151.0	98.0	88.0	83.0	1147.0	
1984	8,114	8,092	82.0	101.0	122.0	135.0	157.0	166.0			135.0	120.0	109.0	80.0	1501.0	
1985	8,200	8,182	66.0	77.0	91.0	125.0		156.0	209.0	172.0	135.0	150.0	93.0	94.0	1521.0	
1986	8,250	8,232	97.0	76.0	96.0	116.0	149.0	210.0	197.0	220.0	158.0	118.0	110.0	100.0	1647.0	
1987	8,300	8,282	87.0	85.0	81.0			132.0				142.0	90.0	84.0	1607.0	
1988	8,500	8,465	100.0	99.0	166.0	162.0	155.0	182.0	192.0	213.0	217.0	175.0	123.0	106.0	1890.0	
1989	9,130	9,112	94.0	88.0	157.0	172.0	193.0	183.0	208.0	214.0	194.0	137.0	113.0	105.0	1858.0	
1990	9,601	9,583	102.0	90.0	137.0	114.0	152.0	171.0	195.0	198.0	157.0	162.0	160.0	125.0	1763.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3		_		ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.10	23,267	92	99	75	92	100	116	169	168	198	153	153	110	127	0.143
1981	3.17	24,217	69	63	60	102	135	191	214	176	249	108	91	79	128	0.144
1982	3.23	25,198	63	52	64	94	113	148	179	172	128	110	83	58	106	0.118
1983	3.30	26,070	66	62	62	79	115	155	202	173	193	121	113	103	121	0.135
1984	3.37	27,317	97	127	144	165	185	203	188	159	165	142	133	94	151	0.169
1985	3.43	28,153	76	98	104	148	175	185	239	197	160	172	110	108	148	0.166
1986	3.50	28,875	108	94	107	134	166	242	220	246	182	132	127	112	156	0.175
1987	3.57	29,603	95	103	88	108	187	149	234	230	239	155	101	92	149	0.167
	3.63	30,882	104	111	173	175	162	196	201	222	234	183	133	111	168	0.188
1988	3.70	33,779	90	93	150	170	184	181	199	204	191	131	112	100	151	0.169
1988	3110															
	3.77	36,162	91	89	122	105	136	158	174	177	145	145	147	112	134	0.150

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

CUINTY ORANGE WATER AGENCYCAPISTRANO VALLEY WATER DISTRICT ORIGIN OF WATER (in per CITYSAN JUAN CAPISTRANO TYPE OF AGENCYPUBLIC WATER DISTRICT SYSTEM #	79 21
SYSTEM #	21 ercent): 79
##DROLOGIC REGION SOUTH COAST SYSTEM SERVES: MELLS AND SPRINGS PLANNING SUBAREA #SAN DIEGO DAU #	21 ercent): 79
PLANNING SUBAREA #SAN DIEGO DAU #	ercent):
DAU #	79
ENTIRE CITY PLUS OUTSIDE SOURCE OF WATER (in per CITY CENSUS POPULATION PORYION OF THE CITY	79
CITY CENSUS POPULATION	79
1980 18,959 OTHER X PURCHASED	
SELF SUPPLIED SERVICE CONNECTIONS /1 SELF SUPPLIED SERVICE CONNECTIONS /1 GOVERNMENTAL: GOVERNMENTAL: Metered 8,683 Metered 355 Metered NA Metered 2 Flat Rate 0 Flat Rate NA Flat Rate NA Flat Rate 0 Flat Rate NA Fla	
SERVICE CONNECTIONS /1 RESIDENTIAL: COMMERCIAL: INDUSTRIAL: GOVERNMENTAL: Metered 8,683 Metered 355 Metered NA Metered 2 Flat Rate 0 Flat Rate NA Flat Rate 0 YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	21
RESIDENTIAL: COMMERCIAL: INDUSTRIAL: GOVERNMENTAL: Metered 8,683 Metered 355 Metered NA Metered 2 Flat Rate 0 Flat Rate NA Flat Rate 0 YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	
Metered	
Flat Rate 0 Flat Rate 0 Flat Rate NA Flat Rate 0 YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	
YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	
OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	
OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	
RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	
1980 6,767 6,767 123.0 108.0 98.0 150.0 151.0 228.0 259.0 237.0 234.0 195.0 207.0 136.0 1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	ANNUAL
1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	ANNUAL
1981 6,900 6,900 126.0 83.0 96.0 157.0 185.0 273.0 273.0 254.0 224.0 189.0 161.0 105.0	2126.0
1082 7 200 7 200 83 0 83 0 100 0 122 0 137 0 210 0 210 0 218 0 173 0 168 0 117 0 20 0	2126.0
1705 (,500 (,500 0).0 0).0 100.0 155.0 131.0 510.0 510.0 110.0 113.0 103.0 111.0 70.0	1711.0
1983 7,937 7,937 132.0 92.0 83.0 118.0 157.0 192.0 218.0 241.0 222.0 162.0 119.0 98.0	1834.0
1984 7,524 7,524 125.0 126.0 173.0 224.0 222.0 231.0 273.0 252.0 242.0 214.0 141.0 100.0	2323.0
1985 7,704 7,704 98.0 100.0 150.0 189.0 217.0 247.0 291.0 275.0 248.0 224.0 176.0 158.0	2373.0
1986 8,075 8,075 171.0 105.0 112.0 170.0 228.0 233.0 267.0 275.0 195.0 230.0 179.0 141.0	2306.0
1987 7,572 7,572 141.0 132.0 140.0 213.0 228.0 259.0 263.0 315.0 214.0 191.0 135.0 133.0	2364.0
1988 7,796 7,796 135.0 156.0 204.0 201.0 255.0 277.0 258.0 245.0 223.0 234.0 162.0 147.0	2497.0
1989 9,029 9,029 133.0 137.0 174.0 224.0 266.0 264.0 311.0 298.0 265.0 208.0 216.0 198.0	2694.0
1990 9,030 9,030 149.0 125.0 177.0 182.0 251.0 245.0 292.0 282.0 268.0 246.0 190.0 175.0	2582.0
PERSONS AVERAGE	
YEAR PER POPULA- PER CAPITA WATER USE (gpcd)/3	ANNUALLY
OF CONNEC- TION	gpcd afp
RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT MOV DEC	/3 /4
1980 2.80 18,959 209 196 167 264 257 401 441 403 411 332 364 231	307 0.34
1981 2.81 19.399 210 153 160 270 308 469 454 422 385 314 277 175	300 0.3
1982 2.82 20.313 132 146 159 200 218 345 333 346 284 267 192 143	231 0.2
1983 2.83 22,470 189 146 119 175 225 285 313 346 329 233 177 141	224 0.2
1984 2.84 21,374 189 203 261 349 335 360 412 380 377 323 220 151	298 0.33
1985 2.85 21,961 144 163 220 287 319 375 427 404 376 329 267 232	296 0.3
1986 2.86 23,098 239 162 156 245 318 336 373 384 281 321 258 197	274 0.30
1987 2.87 21,733 209 217 208 327 338 397 390 468 328 283 207 197	298 0.3
1988 2.88 22,452 194 240 293 298 366 411 371 352 331 336 241 211	305 0.34
1989 2.89 26.092 164 188 215 286 329 337 384 368 339 257 276 245	283 0.3
1990 2.90 26,183 184 171 218 232 309 312 360 347 341 303 242 216	270 0.3
AVERAGE 188 180 198 267 302 366 387 384 344 300 247 194	280 0.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	ORANGE			WATER A	GENCY		EL TORO	WATER	DISTRIC	Т		ORIGIN	OF WATE	R (in p	ercent):	
CITY	EL TORO,	ET AL		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #			30079									SURFA	CE WATE	R	100	
HYDROLOG	IC REGION	i	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#	SAN DIE	EGO												
DAU #			. 114		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		49,000			ОТН	ER				X		PURCH	ASED		100	
1990		50,493										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	CIAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	8,557		Meter	ed	669		Meter	ed	NA		Meter	ed	163		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	9,600	9,600	/5	-	-	-			-	-		-			-	
1981	,,,,,,,	.,	-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-			_		-			_	-	-	_	-	
1983				_	-					-						
1984	9,700	9,700		_					434.6	446.8	396.6	312.6	230.8	156.5		
1985	9,701	9,701	202.2	190.7	247.2	309.2	361.0	403.6	435.0	447.0	396.0	313.0	231.0	156.0	3691.9	
1986	9,678	9,678	260.6	169.8	199.1	281.9		390.2			348.1		255.6	211.5	3661.1	
1987	9,809	9,809	206.7		213.6	324.8		398.0	387.4	430.2	382.1	272.4	206.8	195.2	3581.3	
1988	9,897	9,897	201.7		287.1		379.3		450.5	429.5		295.0	233.0		3787.1	
1989	9,899	9,899	212.8			345.6				454.1	393.0	316.0	327.1		4053.5	
1990	9,899	9,899	245.5		277.8										3983.4	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpc
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	E 10															
1981	5.10 5.10	49,000									-		-		-	-
1982			•	-					-		•					•
	5.10		-	-	-	•	-	•	-	-	•	-	-	•	•	•
1983 1984	5.10	10.107	-		-	-	-	-	207	204	-	-	455	400	•	-
	5.10	49,497			-			-	283	291	267	204	155	102	20/	
1985	5.10	49,499	132	138	161	208	235	272	283	291	267	204	156	102	204	0.229
1986	5.10	49,379	170	123	130	190	246	263	290	296	235	177	173	138	203	0.228
1987	5.10	50,044	133	145	138	216	232	265	250	277	255	176	138	126	196	0.220
1988	5.10	50,489	129	159	183	184	242	265	288	274	245	188	154	144	205	0.230
1989	5.10	50,496	136	139	184	228	241	257	294	290	259	202	216	189	220	0.246
1990	5.10	50,493	157	146	177	184	234	257	293	276	269	224	201	170	216	0.242
VERAGE			143	142	162	202	238	263	283	285	257	196	170	139	208	0.232

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY. ORANGE MATER AGENCY CITYLAGUNA BEACH TYPE OF AGENCY SYSTEM #	.PUBLIC EM SERVE TY TY PLUS F THE CI	WATER D	ISTRICT	ATER DIS	STRICT	SURFAC	CE WATEI AND SPI	R	100 0	
SYSTEM #	TY TY PLUS F THE C	CUTSIDE				WELLS	AND SPI			
#YDROLOGIC REGION SOUTH COAST SYST PLANNING SUBAREA #SAN DIEGO DAU #	TY TY PLUS F THE C	CUTSIDE				WELLS	AND SPI			
#YDROLOGIC REGION SOUTH COAST SYST PLANNING SUBAREA #SAN DIEGO DAU #	TY TY PLUS F THE C	CUTSIDE						RINGS	0	
DAU #	TY PLUS	OUTSIDE				culibre 4				
ENTIRE CI CITY CENSUS POPULATION PORTION O 1980	TY PLUS	OUTSIDE				eni iprie 4				
CITY CENSUS POPULATION PORTION 0 1980	F THE C	ΙΤΥ				SUITE 4				
1980 17,860 OTHER 1990 23,170 SERVICE CONNER RESIDENTIAL: COMMERCIAL:			• • • • • • •			SUMME !	OF WATE	(in p	ercent):	
1990 23,170 SERVICE CONNERESIDENTIAL: COMMERCIAL:										
SERVICE CONNE RESIDENTIAL: COMMERCIAL:	CTIONS			х		PURCH	ASED		100	
RESIDENTIAL: COMMERCIAL:	CTIONS					SELF S	SUPPL I EI	 .	0	
		/1								
Metered NA Netered NA		INDUSTR	IAL:			GOVERNM	ENTAL:			
		Meter	ed	NA		Meter	ed	NA		
Flat Rate NA Flat Rate NA		Flat	Rate	NA		Flat	Rate	NA		
YEAR ACTIVE SERVICE TOTAL	WATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
OF CONNECTIONS /2										
RECORD SYSTEM CITY JAN FEB MAR API	R MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980 7.217 7.217 79.0 66.0 75.0 92.0	94.0	112.0	128.0	134.0	104.0	104.0	105.0	86.0	1179.0	
1981 7.320 7.320 92.0 80.0 82.0 101.0			137.0		120.0	99.0	97.0		1277.0	
1982 7,430 7,430 77.0 70.0 85.0 84.0				150.0	108.0	113.0	87.0		1214.0	
1983 7,535 7,535 91.0 72.0 81.0 82.0				134.0		107.0	83.0		1217.0	
1984 7,640 7,640 85.0 100.0 115.0 115.0		130.0	150.0	145.0	134.0	121.0	97.0	91.0	1419.0	
1985 7,750 7,750 91.0 80.0 106.0 111.0			159.0	157.0	132.0	133.0	104.0	90.0	1421.0	
1986 7.854 7.854 114.0 86.0 96.0 116.0				158.0	131.0	122.0	115.0	106.0	1469.0	
1987 7,759 7,759 105.0 97.0 112.0 131.0	142.0	149.0	151.0	157.0	147.0	118.0	97.0	100.0	1506.0	
1988 7,950 7,950 108.0 114.0 130.0 121.0		137.0	153.0	155.0	129.0	134.0	102.0	89.0	1511.0	
1989 7,955 7,955 86.0 93.0 115.0 126.0	119.0	119.0	135.0	150.0	134.0	123.0	126.0	131.0	1457.0	
1990 8,206 8,206 120.0 104.0 124.0 114.0	137.0	149.0	147.0	165.0	131.0	135.0	128.0	115.0	1569.0	
PERSONS AVERAGE										
YEAR PER POPULA-	PER CAL	PITA WAT	FR USF	(ancd)/	3				ANNUALLY	
OF CONNEC- TION	1 2.1			130-17					gpcd	afpca
RECORD TION SERVED JAN FEB MAR APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14

1980 2,47 17,860 143 127 135 177	170	209	231	242	194	188	196	155	181	0.203
1981 2.51 18,370 162 156 144 183	209	230	241	248	218	174	176	144	190	0.213
1982 2.54 18,905 131 132 145 148	172	215	235	256	190	193	153	135	176	0.197
1983 2.58 19,435 151 132 134 141	179	199	232	222	216	178	142	128	172	0.192
1984 2.61 19,973 137 173 186 192	220	217	242	234	224	195	162	147	195	0.218
1985 2.65 20,531 143 139 167 180	193	219	250	247	214	209	169	141	190	0.212
1986 2.68 21,080 174 146 147 183			246	242	207	187	182	162	191	0.214
1987 2.72 21,096 161 164 171 207	217	235	231	240	232	180	153	153	196	0.219
1988 2.75 21,893 159 180 192 184	205	209	225	228	196	197	155	131	189	0.212
1989 2.79 22,184 125 150 167 189		179	196	218	201	179	189	190	180	0.202
1990 2.82 23,170 167 160 173 164	191	214	205	230	188	188	184	160	186	0.208
AVERAGE 150 151 160 177	7 194	212	230	237	207	188	169	150	186	0.208

^{1/} Number of services

^{2/} Excludes services for egriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY.	. ORANGE			WATER A	GENCY		LOS ALI	SOS WAT	ER DIST	RICT		ORIGIN	OF WATE	R (in p	ercent):	
CITY	. EL TORO			TYPE OF	AGENCY		PUBL1C	WATER D	ISTRICT							
SYSTEM #	#		30091									SURFA	CE WATE	R	0	
HYDROLOG	GIC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	G SUBAREA	#	SAN DIE	GO												
DAU #		• • • • • • • • • • • • • • • • • • • •	114					CUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	NSUS POPUL	ATION			POR	TION OF	THE C	TY								
1980		9,000			OTH	ER				x		PURCH	ASED		100	
1990		38,600										SELF	SUPPL 1E	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	10,781		Meter	ed	379		Meter	ed	NA		Meter	ed	NA		
Flat F	Rate	0		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE					TOTAL W	ATER II	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	1444	550	MAD	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	050	AANM 141	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	UCI	NUV	DEC	ANNUAL	
1980	7,500	7,500	/5	_	-			_				_		_	-	
1981	7,500	1,300	,,,		_	_	_	_	_	_	_	_				
1982				-	_	_	_	_	_	_	_	_	-			
1983	8,100	8,100		_	_	_			252.0	234.0	221.0	163.0	127.0	104.0	_	
1984	8,387	8,387	163.0	194.0	230.0	235.0	290.0	287.0	356.0	341.0	312.0	277.0	160.0		2956.0	
1985	8,849	8.849	141.0	126.0	185.0	210.0	252.0	287.0	320.0	288.0	250.0	255.0	166.0	156.0	2636.0	
1986	9,813	9.813	187.0	125.0	161.0	217.0	292.0	295.0		312.0	268.0	229.0	195.0	181.0	2787.0	
1987	11,093	11,093	174.0	162.0	165.0	257.0	289.0			337.0	305.0	230.0	181.0	173.0	2933.0	
1988			_	_	-	_	-	-	_	-	-	-	-	_		
1989	11,638	11,638	190.0	160.0	205.0	230.0	299.0	324.0	354.0	356.0	286.0	272.0	274.0	257.0	3207.0	
1990	11,751	11,751	205.0	183.0	230.0	225.0	321.0	296.0	326.0	314.0	335.0	297.0	228.0	241.0	3201.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAI	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	_ /3	14
1980	1.20	9,000	-	-	-	-	-	-	-	-	-	-	-	-	-	•
1981	1.41		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	1.62		-	-	-	-	-	-	-	-	-	•		-	-	•
1983	1.83	14,786	-	-	-	-		-	550	511	498	356	286	227	-	-
1984	2.03	17,059	308	392	435	459	548	561	673	645	610	524	313	210	475	0.532
1985	2.24	19,843	229	227	301	353	410	482	520	468	420	415	279	254	364	0.408
1986	2.45	24,051	251	186	216	301	392	409	436	418	371	307	270	243	317	0.356
1987	2.66	29,500	190	196	180	290	316	366	367	369	345	251	205	189	272	0.305
1988	2.87		-	-	-	-	-		-		-	-	-	-	-	-
1989	3.08	35,802	171	160	185	214	269	302	319	321	266	245	255	232	245	0.275
1990	3.28	38,600	171	169	192	194	268	256	272	262	289	248	197	201	227	0.254
AVERAGE			220	222	251	302	367	396	448	428	400	335	258	222	317	0.355

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{/5} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	ORANGE			WATER A	GENCY		MOULTON	NIGUE	WATER	DISTRI	CT	ORIGIN	OF WATE	R (in p	percent):	
CITY	MISSION V	IEJO, ET	AL	TYPE OF	AGENCY		PUBLIC	WATER D	DISTRICT	Г						
SYSTEM #	f		30073									SURFA	CE WATE	R	. 100	
HYDROLOG	IC REGION	l	SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	. 0	
PLANNING	SUBAREA	#	SAN DIE	EGO												
DAU #			114		ENT	IRE CIT	ηγ	•••••		•						
					ENT	IRE CIT	Y PLUS	CUTSIDE		•		SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE C	ΤΥ	• • • • • • •	•						
1980	•••••	36,000			ОТН	ER				. х		PURCH	ASED		. 100	
1990		109,250										SELF	SUPPLIE	D	. 0	
					SERVICE	CONNEC	CTIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUST	RIAL:			GOVERNM	ENTAL:			
Metere	:d	34,817		Meter	ed	3,045		Meter	red			Meter	ed	1,855		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	MATER IN	ITO SYST	TEM (MII	LLION G	ALLONS)					
OF RECORD	SYSTEM	TIONS /2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
KECURD				rcb	PIAK	APK	PIAT	JUN	300	AUG	SEP		NOV	DEC	MINUAL	
1980	14,515	14,515	163.0	129.0	170.0	303.0	315.0	469.0	567.0	530.0	489.0	425.0	351.0	264.0	4175.0	
1981	14,975	14,975	254.0	201.0	269.0	427.0	465.0	703.0	703.0	681.0	572.0	376.0	406.0	304:0	5361.0	
1982	18,354	18,354	199.0	230.0	279.0	348.0	407.0	513.0	685.0	696.0	560.0	478.0	324.0	233.0	4952.0	
1983	19,300	19,300	242.0	147.0	142.0	234.0	390.0	540.0	624.0	807.0	668.0	419.0	315.0	255.0	4783.0	
1984	19,321	19,321	308.0	381.0	451.0	477.0	612.0	629.0	746.0	731.0	685.0	553.0	343.0	235.0	6151.0	
1985	20,786	20,786	259.0	250.0	376.0	492.0	643.0	714.0	827.0	805.0	664.0	574.0	355.0	333.0	6292.0	
1986	23,989	23,989	397.0	244.0	328.0	476.0	691.0	741.0	881.0	934.0	766.0	523.0	500.0	389.0	6870.0	
1987	26,938	26,938	416.0	395.0	426.0	709.0	799.0	896.0	913.0	960.0	954.0	679.0	451.0	445.0	8043.0	
1988	30,719	30,719	436.0	532.0	684.0	611.0	924.0	991.0	1167.0	1212.0	1171.0	932.0	602.0	789.0	10051.0	
1989	34,523	34,523	483.0	465.0	640.0	861.0	1095.0	1075.0	1243.0	1297.0	1105.0	900.0	866.0	798.0	10828.0	
1990	37,445	37,445	520.0	458.0	657.0	706.0	987.0	992.0	1242.0	1234.0	1202.0	1110.0	846.0	746.0	10700.0	
	DEDEONE	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAR	PITA NA	TER USE	(ancd)	ß				ANNUALLY	
OF	CONNEC-	TION								Capour	, -				good	afpca
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.48	36,000	146	124	152	281	282	434	508	475	453	381	325	237	318	0.356
1981	2.52	37,796	217	190	230	377	397	620	600	581	504	321	358	259	389	0.435
1982	2.57	47,127	136	174	191	246	279	363	469	476	396	327	229	159	288	0.322
1983	2.61	50,400	155	104	91	155	250	357	399	517	442	268	208	163	260	0.291
1984	2.66	51,300	194	256	284	310	385	409	469	460	445	348	223	148	328	0.368
1985	2.70	56,099	149	159	216	292	370	424	476	463	395	330	211	191	307	0.344
1986	2.74	65,793	195	132	161	241	339	375	432	458	388	256	253	191	286	0.320
1987	2.79	75,060	179	188	183	315	343	398	392	413	424	292	200	191	294	0.329
1988	2.83	86,939	162	211	254	234	343	380	433	450	449	346	231	293	317	0.355
1989	2.87	99,215	157	167	208	289	356	361	404	422	371	293	291	259	299	0.335
1990	2.92	109,250	154	150	194	215	291	303	367	364	367	328	258	220	268	0.301
AVERAGE			167	169	197	269	330	402	450	462	421	317	253	210	305	0.341

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

	ORANGE							MENTE,				ORIGIN	OF WATE	R (in p	ercent):	
	SAN CLEME			TYPE OF	AGENCY		MUNICIA	PAL WATE	R DEPAR	TMENT						
													CE WATE			
	IC REGION					SYSTE	M SERVE	:5:				WELLS	AND SP	RINGS	9	
	SUBAREA			GO												
DAU #	•••••		. 114					OUTSIDE		х		SOURCE	OF WATE	R (in n	ercent):	
ITY CEN	SUS POPUL	ATION						ΤΥ								
					ОТН	ER						PURCH	ASED		91	
		-											SUPPLIE		9	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	12,598		Meter	ed	659		Meter	ed	NA		Meter	ed	514		
	ate	3			Rate	0			Rate				Rate	0		
r cac k				, , , ,										•		
YEAR	ACTIVE :					TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	IAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANIANIA	
RECORD	SYSTEM	CITY	JAN	158	MAK	APR	MAT	JUN	JUL	AUG	SEP		NUV	DEC	ANNUAL	
1980	8,950	8,950	/5	-		-	-	-	170.0	159.0	148.0	138.0	110.0	114.0		
1981	8,950	8,950	90.0	84.0	102.0	123.0	109.0	172.0	191.0	217.0	172.0	118.0	134.0	104.0	1616.0	
1982	9.082	9.082	79.0	81.0	96.0	111.0	115.0	150.0	168.0	183.0	155.0	138.0	118.0	93.0	1487.0	
1983	9,082	9,082	114.0	86.0	93.0	105.0	134.0	151.0	175.0	190.0	161.0	143.0	112.0	109.0	1573.0	
1984	9,610	9,610		130.0		174.0				265.0			158.0			
1985	10,843	10.843	148.0	135.0			182.0	205.0		266.0		233.0	158.0		2207.0	
1986	11,271	11,271	165.0		128.0		199.0		373.0		436.0	335.0	211.0		3180.0	
1987	13,465	13,465	241.0	240.0	195.0	181.0				136.0	145.0	204.0	228.0	230.0	2263.0	
1988	,	,			.,,,,,											
1989	13,060	13,060	189.0	167.0	202.0	249.0	289.0	308.0	363.0	352.0	309.0	277.0	246.0	233.0	3184.0	
1990	13,209	13,209						268.0								
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											-		gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.05	27,325						-	201	188	181	163	134	135		
1981	3.06	27,377	106	110	120	150	128	209	225	256	209	139	163	123	162	0.18
1982	3.06	27,834	92	104	111	133	133	180	195	212	186	160	141	108	146	0.16
1983	3.07	27,887	132	110	108	126	155	180	202	220	192	165	134	126	155	0.17
1984	3.08	29,565	135	152	175	196	229	248	275	289	277	253	178	161	215	0.24
1985	3.08	33,421	143	144	112	146	176	204	216	257	245	225	158	143	181	0.20
1986	3.09	34,806	153	162	119	190	184	344	346	357	418	310	202	216	250	0.28
1987	3.09	41,660	187	206	151	145	132	120	111	105	116	158	182	178	149	0.16
1988	3.10		-	-				-	-	-	-	-	-		-	-
1989	3.11	40,560	150	147	161	205	230	253	289	280	254	220	202	185	215	0.24
1990	3.11	41,100	157	143	169	182	219	217	263	264	259	255	212	187	211	0.23
VERAGE			139	142	136	164	176	217	232	243	234	205	171	156	187	0.21
			139	146	130	104	110	211	حدد	243	234	203		130	107	0.21

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	ORANGE			WATER A	GENCY		SOUTH (COAST CO	JNTY WA	TER DIS	TRICT	ORIGIN	OF WATE	(in p	ercent):	
CITY	LAGUNA BE	ACH		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #			30042									SURFA	CE WATER	R	100	
HYDROLOG	IC REGION		SOUTH C	OAST		SYSTE	M SERVI	ES:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	SAN DIE	GO												
DAU #			114		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATER	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE C	ITY								
1980		11,000			ОТН	ER				X		PURCH	ASED		100	
1990		19,000										SELF	SUPPL I E	·	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,025		Meter	ed	350		Heter	ed	NA		Neter	ed	NA		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER I	NTO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000		7.7/0			58.0	86.0	97.0	103.0	420.0	424.0	107.0	92.0	91.0	47.0	1033.0	
1980	3,760	3,760	54.0	46.0 57.0	66.0	88.0	104.0		184.0	173.0	121.0	88.0	83.0	62.0	1244.0	
1981	4,654	4,654	67.0		62.0	83.0	98.0		144.0	122.0	98.0	104.0	69.0	60.0	1044.0	
1982	4,696	4,696	52.0	53.0					138.6	132.4	137.8	89.4	63.9		1082.7	
1983	4,750	4,750	74.0	50.0	45.0	72.0		110.0								
1984	4,785	4,785	82.5	89.8	109.2	112.6	133.9		163.0	159.0	148.7	120.1	80.7 98.3		1393.1 1266.6	
1985	4,922	4,922	72.5	76.2	95.7	99.4	111.4		119.1	150.5	101.6	151.1				
1986	5,159	5,159	77.0	53.0	75.0	90.0	119.0		135.0	138.0	122.0	121.0	104.0	76.0	1233.0	
1987	5,697	5,697	79.0	71.0	88.0	114.0	115.0	131.0	140.0	138.0	128.0	142.0	72.0	82.0	1298.0	
1988	5,863	5,863	/5	-	-	-	-	-	231.0	234.0	198.0	193.0	115.0	95.0	4/// 0	
1989	6,334	6,334	73.0	77.0	130.0	183.0			140.0	136.0	124.0	133.0	110.0		1646.0	
1990	6,377	6,377	84.5	84.4	102.8	99.3	117.0	80.3	178.8	145.6	133.8	121.9	98.2	104.9	1351.5	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.93	11,000	158	144	170	261	243	312	352	370	324	270	276	196	257	0.288
1981	2.93	13,641	158	149	156	215	246	369	435	409	296	208	203	147	250	0.280
	2.94	13,789	122	137	145	201	229	239	337	285	237	243	167	140	207	0.232
1982	2.94	13,973	171	128	104	172	238	262	320	306	329	206	152	154	212	0.238
1982 1983	2174	41 400	189	220	250	266	306	313	373	364	351	275	191	140	271	0.303
	2.95	14,102	109								-	-				0.267
1983		14,102	161	187	212	228	247	262	264	334	233	335	225	170	239	0.207
1983 1984	2.95	•			212 159	228 197	247 252		264 285	334 292	266	256	225 227	170 161	239 221	
1983 1984 1985	2.95 2.95	14,532	161	187				269								0.248
1983 1984 1985 1986	2.95 2.95 2.96	14,532 15,260	161 163	187 124	159	197	252	269	285	292	266	256	227	161	221	0.248
1983 1984 1985 1986 1987	2.95 2.95 2.96 2.96	14,532 15,260 16,882	161 163 151	187 124 150	159 168	197 225	252 216	269 259	285 268	292 264	266 253	256 271	227 142	161 157	221 211	0.248

^{1/} Number of services

154 154 176

284

260 197 165

230 0.258

280

328

226 255

^{2/} Excludes services for agriculture, fire hydrants,

fire protection, and other agencies.

^{/5} Missing data unavailable.

³²² 3/ gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN DIEGO			WATER A							MMD	ORIGIN	OF WATE	R (in p	percent):	
	ESCONDIDO		7700/	TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT		~~~			400	
		• • • • • • • •				OVOTE	M 05015						CE WATE			
						2121E	M SERVE	:5:				MELLS	AND SP	RINGS	. 0	
		#		:GU	ENT											
DAU #	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	120									0011005	05 114 75			
												SOURCE	OF WATE	R (in p	percent):	
	SUS POPUL								•••••			DI IDDII	4.000		400	
	• • • • • • • • • • • • • • • • • • • •	-			OIN	EK			•••••				ASED			
1990	• • • • • • • • •	108,633			ernuter	CONNEC	71000	14				SELF	SUPPLIE	D	. 0	
				COMMERC	SERVICE	CONNEC	TUNS					001 57111				
RESIDENT		40 500				4 700		INDUSTR		414		GOVERNM				
	d	•			ed				ed				ed	NA		
Flat R	ate	0		reat	Rate	0		reat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EN (MIL	LION GA	LLONS)					
OF		TIONS /2	***				****									
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	19.580	10 800	200 0	116.0	27/ 0	500.0		027.0	044 0	052.0	727 0	424 0	E02 0	207.0	6535.0	
1981	18,709			253.0											5390.0	
1982	19,524	•													6040.0	
1983	22,963														5610.0	
1984	21,632	19,623													7359.0	
	22,304	20.322														
1985 1986	24,395	23,121													7200.0	
1987	24,779	23,986													7525.0	
1988	20,278	19,982														
1989	27,160														10243.0	
1990	20,324	19,774														
YEAR	PERSONS PER	POPULA-					DED C40	77A 11A7	CD LICE	/	7				410004111	
OF	CONNEC-						PER CAP	TIA WAT	ER USE	(gpca)/	3		-		ANNUALLY	
RECORD	TION	TION	JAN	FES	MAR	APR	MAY	JUN	JUL	4110	SEP	OCT	11011	250	gpcd	afpc
			JAR	rco	PMK	APK	MAI	JUN	JUL	AUG	3EP		NOV	DEC	/3	/4
1980	5.73	112,245	60	36	67	148	137	275	278	274	218	180	149	84	160	0.179
1981	5.71	106,805	110	85	107	152	196	239	202	196	141	105	74	47	138	0.155
1982	5.68	110,991	57	65	108	159	176	213	280	284	177	164	60	39	149	0.167
1983	5.66	129,993	94	65	67	79	148	200	205	186	169	113	53	34	118	0.132
1984	5.64	121,942	106	154	168	172	222	218	229	226	240	134	68	43	165	0.185
1985	5.61	125,198	92	103	116	176	197	240	250	247	177	156	78	54	158	0.176
1986	5.59	136,352	107	61	77	126	175	195	183	193	103	79	103	72	123	0.138
1987	5.57	137,907	77	93	100	192	196	232	211	225	191	126	79	70	149	0.167
1988	5.54	112,372	131	175	215	200	246	292	308	301	257	223	164	141	222	0.249
1989	5.52	149,861	106	105	147	187	214	228	255	240	227	178	186	169	187	0.210
1990	5.49	111,657	102	98	153	151	201	197	235	232	228	197	159	125	174	0.195

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN DIEGO							ATER DI				ORIGIN	OF WATE	R (in p	ercent):	
		ET AL		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
		• • • • • • • • • • • • • • • • • • • •											ICE WATE			
		• • • • • • • • • • • • • • • • • • • •				SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	1	
		#		GO												
AU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	120													
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							TY								
	• • • • • • • • • • • • • • • • • • • •				OTH	ER		• • • • • • • •	• • • • • • • •				ASED			
1990	• • • • • • • • •	227,293				-						SELF	SUPPLIE	D	2	
						CONNEC	TIONS									
ESIDENT				COMMERC				INDUSTR				GOVERNA				
	d	-			ed	•			ed				red			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	MTER II	TO SYST	EM (MIL	LION GA	(LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	49,255	49,255														
1981	49,673	49,673	833.0	709.0	722.0	917.0	1217.6	1555.3	1641.0	1597.0	1380.0	1097.0	967.0	845.0	13480.9	
1982	49,834	49,834	690.0	645.0	749.0	911.0	1097.0	1181.0	1503.0	1541.0	1231.0	1173.0	805.0	697.0	12223.0	
1983	50,033	50,033	728.0	612.0	638.0	730.0	1077.0	1198.0	1502.0	1387.0	1332.0	1070.0	818.0	673.0	11765.0	
1984	50,368															
1985	50,549	50,549														
1986	51,335														13727.0	
1987	52,100														13366.0	
1988	52,764	52,764	792.0	876.0	1129.0	1059.0	1304.0	1420.0	1563.0	1541.0	1428.0	1263.0	932.0	878.0	14185.0	
1989	53,228														14864.0	
1990	53,347	53,347	851.0	748.0	1006.0	1012.0	1274.0	1239.0	1487.0	1442.0	1363.0	1137.0	1024.0	931.0	13514.0	
		AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	ER USE	(gpcd)	13				ANNUALLY	
OF	CONNEC-	TION				400	MAM			4110	000	007	NO.	050	gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	МАУ	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980		204,263	111	101	110	149	138		251	243	211	192		143	171	0.19
1981	4.16	206,561	130	123	113	148	190	251	256	249	223	171	156	132	179	0.20
1982	4.17	207,796	107	111	116	146	170	189	233	239	197	182	129	108	161	0.18
1983	4.18	209,195	112	104	98	116	166	191	232	214	212	165	130	104	154	0.17
1984	4.19	211,167	108	143	168	174	219	218	229	216	230	169	130	107	176	0.19
1704	4.20	212,500	107	120	136	169	197	240	262	250	205	173	133	115	176	0.19
1985		216,388	136	112	122	159	207	225	236	251	205	153	151	126	174	0.19
	4.22	,							220	225	194	155	424	440		0.18
1985		220,204	116	130	118	174	194	220	228	225	134	100	121	119	166	0.10
1985 1986	4.23		116 114		118 163		194 188							119		0.19
1985 1986 1987	4.23 4.24	220,204		135	163	158	188	212		222	213		139		174	

^{1/} Number of services

236

209 171 144 124 170 0.191

116 120 131

158 186 215

²³¹ 3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

^{5/} Agency serves: El Cajon, La Mesa, Lemon Grove, Spring Valley & Lakeside.

COUNTY.	SAN DIEGO)		WATER A	GENCY		LAKESID	E WATER	DISTRI	CT		ORIGIN (OF WATER	(in p	ercent):	
CITY	LAKESIDE			TYPE OF	AGENCY.		PUBLIC	WATER O	ISTRICT							
SYSTEM #	¥		37013									SURFA	CE WATER	₹	100	
HYDROLOG	GIC REGION	:	SOUTH C	OAST		SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	SAN DIE	GO												
DAU #			120				Υ									
							Y PLUS					SOURCE	OF WATER	(in p	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE CI	η	• • • • • •							
1980		13,000			OTHE	R		• • • • • • •	• • • • • •	Х		PURCH	ASED		100	
1990		22,000										SELF :	SUPPLIE)	0	
					SERVICE	CONNEC		/1								
ESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	edb	4,352		Meter	ed	NA		Meter	ed	NA		Heter	ed	NA		
Flat R	Rate	0		Flat	Rate	NA		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE			Т	OTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,100	3,100	 /5													****
1981	3,100	3,100	-			_	_		_	_	_	-				
1982																
1983	3,600	3,600		_	_	_	_	_	110.0	99.0	113.0	82.0	84.0	54.0		
1984	3,600	3,600	43.0	43.0	70.0	69.0	99.0	96.0	133.0	119.0	125.0	89.0	58.0	44.0	988.0	
1985	3,800	3,800	47.0	48.0	63.0	83.0	111.0	133.0	150.0	113.0	155.0	89.0	96.0	51.0	1139.0	
1986	4,044	4,044	58.0	46.0	52.0	42.0	86.0	90.0	240.0	127.0	165.0	79.0	87.0		1127.0	
1987		4,200	55.0	63.0	88.0	68.0	84.0	126.0	138.0	137.0	116.0	88.0	55.0		1074.0	
1988	4,200	4,082	٠.٠٠	۵.۰	-	00.0	04.0	120.0	146.0	140.0	126.0	110.0	83.0	78.0	1074.0	
1989	4,082	4,082	62.0	51.0	80.0	98.0	101.0	134.0	152.0	150.0	122.0	101.0	94.0		1232.0	
1990	4,168	4,168	65.0	56.0	81.0	79.0	108.0	101.0	114.0	119.0	99.0	91.0	82.0		1050.0	
YEAR	PERSONS	AVERAGE POPULA-					050 040	*** ****	ED 110E	(d \ (7					
							PER CAP	IIA WAI	EK USE	(gpca)/	3	-			ANNUALLY	
OF ECORD	CONNEC-	TION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	gpcd	afp
	1104		JAN	reb	PIAK	APR	MAT	JUN	JUL	AUG	SEP		MOA	DEC	/3	/4
1980	4.19	13,000	-	-	-	-	-	-	-	-	-	-		•		-
1981	4.30		-	-	-	-	-	-	-	-	•	-	-	-	-	-
1982	4.41		-	-	-	-	-	-	-	-	-	-		-	-	•
1983	4.52	16,268	-	-	-	-	-	•	218	196	232	163	172	107	-	-
1984	4.63	16,659	83	89	136	138	192	192	258	230	250	172	116	85	162	0.18
1985	4.74	17,997	84	95	113	154	199	246	269	203	287	160	178	91	173	0.1
1986	4.84	19,591	96	84	86	71	142	153	395	209	281	130	148	91	158	0.17
1987	4.95	20,802	85	108	136	109	130	202	214	212	186	136	88	87	141	0.1
1988	5.06	20,660	-	-	-	-	-	-	228	219	203	172	134	122	-	-
1989	5.17	21,103	95	86	122	155	154	212	232	229	193	154	148	133	160	0.17
1990	5.28	22,000	95	91	119	120	158	153	167	174	150	133	124	81	131	0.14
VERAGE			90	92	119	124	163	193	248	209	223	153	139	100	154	0.17
			,,,	12	117	16.4	103	173	240	LUY	رب	100	137	100	1,5-4	0.11

^{1/} Service connections unavailable except for residential 3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data unavailable

COUNTY	SAN DIEGO)		WATER A	GENCY		OCEANSI	DE, CIT	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	OCEANSIDE			TYPE OF	AGENCY		MUNICIP	AL WATE	DEPAR	TMENT						
SYSTEM #			37014									SURFA	CE WATE	R	100	
	IC REGION			COAST		SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	SAN DIE	GO												
DAU #			120		ENT	IRE CIT	Y									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		76,698			ОТН	ER						PURCH	ASED		100	
1990		128,398										SELF	SUPPLIE	0	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	32,252		Meter	ed	1,245		Meter	ed	NA		Meter	ed	176		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM CMTI	LION GA	LLONS					
OF		TIONS /2						3,01								
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	19,801	19,025	319.0					728.0					659.0			
1981	20,317	20,043	434.0	345.0	325.0	529.0	671.0	816.0	832.0	876.0	803.0	675.0	605.0	408.0	7319.0	
1982	21,275	21,275	321.0	353.0	380.0	537.0	705.0	734.0	892.0	879.0	671.0	750.0	454.0	356.0	7032.0	
1983	20,355	20,355	286.0	271.0	286.0	307.0	472.0	518.0	620.0	628.0	593.0	433.0	338.0	325.0	5077.0	
1984	22,939	22,939	385.0	407.0	545.0	486.0	637.0	636.0	741.0	712.0	739.0	573.0	392.0	281.0	6534.0	
1985	23,090	23,090	362.0	345.0	433.0	554.0	676.0	716.0	769.0	758.0	601.0	598.0	394.0	347.0	6553.0	
1986	25,424		436.0	309.0	389.0	544.0	711.0	676.0	755.0	782.0	615.0	546.0	491.0	405.0	6659.0	
1987	28,391		418.0			612.0				778.0	707.0		437.0		6907.0	
1988	30,000	30,000	430.0					848.0		856.0		689.0			8062.0	
1989	28,939	28,939														
1990	35,380	35,380														
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.03	79,826	129	117	124	190	210	304	348	358	319	271	275	189	237	0.266
									331	348	330	269	249	162	247	
1981	3.99	81,089	173	152	129	217	267	335								0.277
1982	3.95	84,057	123	150	146	213	271	291	342	337	266	288	180	137	229	0.257
1983	3.91	79,603	116	122	116	129	191	217	251	254	248	175	142	132	175	0.196
1984	3.87	88,786	140	158	198	182	231	239	269	259	277	208	147	102	202	0.226
1985	3.83	88,441	132	139	158	209	247	270	280	276	227	218	148	127	203	0.227
1986	3.79	96,358	146	115	130	188	238	234	253	262	213	183	170	136	189	0.212
1987	3.75	106,461	127	135	140	192	215	209	227	236	221	164	137	129	178	0.199
1988	3.71	111,287	125	162	201	173	231	254	253	248	239	200	158	130	198	0.222
1989	3.67	106,187	131	132	171	221	225	256	283	275	244	217	209	193	214	0.239
1990	3.63	128,398	124	118	143	151	193	197	236	226	223	195	174	149	178	0.199

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	SAN DIEGO				GENCY					DISTR	CT	ORIGIN	OF WATE	(in p	ercent):	
	RAMONA			TYPE OF	AGENCY		PUBLIC	MATER D	STRICT						400	
		• • • • • • • • •											CE WATE		100	
						SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	NA	
PLANNING	SUBAREA	#		GO												
DAU #			120					• • • • • • • • • • • • • • • • • • • •								
					ENT	RE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		15,000			OTH	ER				X		PURCH	ASED		100	
1990		31,000										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	6,937		Meter	ed	354		Meter	ed	NA		Meter	ed	52		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5.000	5,000	/5	-		-	-			-	-	-				
1981	-,-50	-,		-	-	-		-	-		-	-	-		-	
1982			-	-	_	-	-	-	-	-	-		_	_		
1983	5,431	5,431	-			-	-	_	460.0	401.0	447.0	294.0	163.0	77.0		
1984	5,431	5,431	135.0	218.0	291.0	264.0	409.0	383.0	448.0	405.0	458.0	349.0	166.0		3586.0	
1985	5,431	5,220	92.0	86.0	141.0	209.0	307.0	394.0	495.0	472.0	364.0	319.0	213.0	104.0	3196.0	
1986	6,103	6.103	202.0	78.0	158.0	231.0		403.0	468.0	509.0	363.0	271.0	244.0	141.0	3432.0	
1987	6,512	6,500	154.0	140.0	69.0	263.0	302.0	383.0	401.0	443.0	403.0	257.0	126.0	114.0	3055.0	
1988	7,866	7.848	134.0	0.0	-		-	-	449.0	438.0	434.0	394.0	196.0	195.0	-	
1989	7,866	7,848	158.0	138.0	255.0	318 D	296.0	293.0			411.0		345.0		3797.0	
1990	7,361	7,361	169.0		240.0				-			-		-	-	
-	PERONIO	AVERAGE														
YEAR	PERSONS	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION											-		gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.00	15,000	-	-	-	-	-	-	•		-	-	•	-	•	-
1981	3.12		-	-	-	•	-	-	•	-	-	-	-	•		-
1982	3.24		-	-	-	-	-	-			0.	•	•		•	-
1983	3.36	18,267	-	-	-	-	-	-	812	708	816	519	297	136	-	-
1984	3.48	18,925	230	397	496	465	697	675	764	690	807	595	292	102	519	0.58
1985	3.61	18,822	158	163	242	370	526	698	848	809	645	547	377	178	465	0.5
1986	3.73	22,745	286	122	224	339	516	591	664	722	532	384	358	200	413	0.46
1987	3.85	25,058	198	200	89	350	389	509	516	570	536	331	168	147	334	0.37
1988	3.97	31,221	-	-	-	-	-	-	464	453	463	407	209	201	-	-
1989	4.09	32,174	158	153	256	329	297	304	523	443	426	258	357	363	323	0.3
1990	4.21	31,000	176	162	250	248	354	391	-	-	-	-	-	-	-	-
AVERAGE			201	200	259	750		528	656	628	603	434	294	190	411	0.46
			201	200	750	350	463									

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{4/} afpca - acre-feet per capita annually

	SAN DIEGO				AGENCY							ORIGIN	OF WATE	R (in p	ercent):	
	SAN DIEGO			TYPE O	FAGENCY		MUNICIE	PAL WATE	R DISTR	I CT						
		••••••												R	100	
		• • • • • • • • • • • • • • • • • • • •				SYSTE	M SERVE	ES:				WELLS	AND SP	RINGS	0	
PLANNING	SUBAREA	#		EGO												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	120					OUTSIDE				SUIBLE	OF UATE	P (in n	ercent):	
CITY CENS	SUS POPUL	ATION						TY				SOUNCE	O 1011	ж (ш р	er cent).	
		875,504			OTH	ER						PURCH	ASED		100	
		1100549										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMER				INDUSTR	IAL:			GOVERNI	ENTAL:			
		215,526			red	16,773		Meter	ed	615		Heter	ed	. NA		
	ate	•			Rate			Flat	Rate	. 0		Flat	Rate	. 0		
YEAR		SERVICE				TOTAL I	MATER II	NTO SYST	EM (MIL	LION G	ALLONS)					
OF		TIONS /2													*******	
RECORD	SYSTEM	CITY	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	200,667	200,559	3517.5	3163.0	3498.0	4161.0	4172.0	5681.0	4519.0	5880.0	6120.8	5323.0	4822.0	4104.0	54961.3	
1981	200,998	200,875														
1982	201,766	201,695														
1983	202,445	202,386														
1984	214,433	214.365														
1985	213,002	212,429														
1986	222,703	222,636														
1987	227,217	•														
1988	231,043	230,973														
1989	238,716	238,646														
1990	235,810	235,741														
WEAR	PERSONS	AVERAGE					DED C	APITA W	TED LICE	Concel	13				ANNUALLY	,
YEAR	PER CONNEC-	POPULA- TION					PER U	AFIIA W	ITER USE	. (Speci	,, 3				apcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
KECOKD	TION	SEKVED	JAN	PEB	MAK	APK			300	AUG	oc.				,,,	
1980	4.37	875,975	130	125	129	158	154	216	166	217	233	196	183	151	172	0.193
1981	4.40	883,514	167	152	141	181	214	258	267	270	251	212	195	163	206	0.231
1982	4.43	893,006	117	220	244	200	207	171	124	149	112	133	65	153	158	0.17
1983	4.46	-		160	155	200	250	272	308	302	296	237	190	154	225	0.25
1984	4.49	962,070	140	161	193	194	222	227	248	247	242	203	161	133	198	0.22
1985	4.52	962,107	145	153	169	199	225	247	267	265	232	211	170	147	203	0.22
1986	4.55	1,012,677	166	146	148	182	224	131	246	257	221	187	183	159	188	0.210
		1,040,091	153	161	156	197	213	230	238	238	224	183	156	146	191	0.214
1987	4.58	1,040,071	100													
1987 1988		1,064,609			186	185	211	229	243	240	233	206	169	155	198	0.22
	4.61		149	165								_			198 197	0.22

^{1/} Number of services

149 158 170 188 212 218 233 240 225 196 167 154 193 0.216

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COMITYSAN DIEGO WATER AGENCY																	
SYSTEM #													ORIGIN	OF WATE	R (in p	ercent):	
NITUROLOGIC REGION					TYPE OF	AGENCY		PUBLIC	WATER D	ISIRICI							
DANI																	
DAU #							SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
ENTIRE CITY PLUS QUTSIDE SOURCE OF MATER (in percent): PORTION OF THE CITY					GO												
PORTION OF THE CITY	DAU #	• • • • • • • • • • • • • • • • • • • •		120													
1980													SOURCE	OF WATE	R (in p	ercent):	
SELIF SUPPLIED.																	
SERVICE CONNECTIONS /1 Netered 9,140 Hetered 9,140 Hetered 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat						ОТН	ER	• • • • • • •	•••••	• • • • • • •							
RESIDENTIAL:	1990		35,200										SELF	SUPPLIE	D	0	
Metered							CONNEC										
Fiat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 Flat Rate 0 YEAR ACTIVE SERVICE COMMECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JAN JUL AUG SEP OCT NOV DEC ANNUAL 1980 8,762 8,762 /5 291.0 310.0 246.0 219.0 195.0 166.0 - 1981 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0 1982 2773.0 261.0 245.0 198.0 152.0 128.0 1983 8,955 8,955 132.0 166.0 214.0 210.0 257.0 251.0 289.0 270.0 254.0 223.0 146.0 137.0 2549.0 1 1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 254.0 223.0 146.0 137.0 2549.0 1 1986 9,355 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2666.0 1 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2666.0 1 1989 9,506 9,506 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1 1989 9,506 9,506 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 230.0 167.0 157.0 2613.0 1 1989 9,506 9,506 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 230.0 167.0 157.0 2613.0 1 1980 3.42 30,000 299.0 319.0 251.0 253.0 253.0 188.0 241.0 2721.0 1 PERSONS AVERAGE YEAR PER POPULA- PER CAPITA MATER USE (gpcd)/3 - ANNUALLY 9 spcd aff 1 1980 3.42 30,000 255 315	RESIDENT	IAL:															
TOTAL WATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 8,762 8,762 /5 291.0 310.0 246.0 219.0 195.0 166.0 - 1981 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0 1982 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0 1983 8,955 8,955 132.0 166.0 214.0 210.0 257.0 251.0 289.0 270.0 254.0 223.0 146.0 157.0 2549.0 1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 253.0 223.0 146.0 137.0 2549.0 1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 240.0 213.0 193.0 170.0 2606.0 1989 9,906 9,906 299.0 319.0 251.0 237.0 225.0 222.0 - 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 258.0 238.0 188.0 241.0 2721.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNECT ITON EXERCISE AT ITON SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOW DEC /3 // 1980 3.42 30,000 313 333 273 235 217 178 1980 3.43 30,004 166 166 183 229 259 315	Metere	d	9,140		Meter	ed	456		Meter	ed	. 0						
OF CONNECTIONS /2 RECORD SYSTEM CITY JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 8,762 8,762 /5 291.0 310.0 246.0 219.0 195.0 166.0 - 1981 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0 1982 273.0 261.0 245.0 198.0 152.0 128.0 1984 8,955 8,955 132.0 166.0 214.0 210.0 257.0 251.0 289.0 270.0 254.0 223.0 146.0 137.0 2549.0 1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 253.0 223.0 146.0 137.0 2509.0 1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1988 299.0 319.0 251.0 237.0 225.0 222.0 - 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 238.0 188.0 241.0 2721.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 // 1981 3.43 30,084 166 166 183 229 259 315	Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 8,762 8,762 75 291.0 310.0 246.0 219.0 195.0 166.0 - 1981 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0 1982 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0 1983 8,955 8,955 273.0 261.0 245.0 198.0 152.0 128.0 - 1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 253.0 223.0 146.0 137.0 2549.0 1985 9,026 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2609.0 1986 9,345 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 193.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1989 9,906 9,906 299.0 319.0 251.0 251.0 252.0 222.0 - 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 258.0 238.0 188.0 241.0 2721.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 // 1981 3.43 30,084 166 166 183 229 259 315							TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
1980 8,762 8,762 /5 291.0 310.0 246.0 219.0 195.0 166.0 - 1981 8,762 8,762 155.0 140.0 171.0 207.0 242.0 284.0	RECORD	SYSTEM	CITY								AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1982 1983 8,955 8,955 273.0 261.0 245.0 198.0 152.0 128.0 - 198.4 8,955 8,955 132.0 166.0 214.0 210.0 257.0 251.0 289.0 270.0 254.0 223.0 146.0 137.0 2549.0 1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 253.0 223.0 146.0 137.0 2606.0 1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 199.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1988 299.0 319.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1989 9,906 9,906 299.0 319.0 251.0 251.0 257.0 222.0 - 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 258.0 238.0 188.0 241.0 2721.0 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 258.0 238.0 188.0 241.0 2721.0 1980 3.42 30,000 313 333 273 235 217 178 1981 3.43 30,084 166 166 183 229 259 315 1981 3.43 30,084 166 166 183 229 259 315 1982 3.44 285 272 264 207 164 134 285 272 264 207 164 134 285 373 235 217 178 1983 3.45 30,917 285 272 264 207 164 134 285 373 235 157 143 225 0.2 1985 3.47 31,335 134 161 203 249 294 323 296 278 278 278 278 155 141 228 0.2 1985 3.47 31,335 134 161 203 249 294 323 296 278 264 196 167 152 215 0.2 1987 3.49 33,557 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1987 3.49 33,557 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1989 3.51 34,768 277 296 241 220 216 206					-		-				310.0	246.0	219.0	195.0	166.0	-	
1983 8,955 8,955 132.0 166.0 214.0 210.0 257.0 251.0 289.0 270.0 254.0 223.0 146.0 137.0 2549.0 1985 9,026 9,026 130.0 141.0 197.0 234.0 266.0 257.0 257.0 257.0 253.0 223.0 146.0 137.0 269.0 1985 9,026 9,345 132.0 166.0 123.0 158.0 211.0 266.0 257.0 257.0 257.0 246.0 223.0 146.0 137.0 2605.0 1987 9,556 9,556 182.0 164.0 177.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2615.0 1988 1989 9,906 9,906 299.0 319.0 251.0 257.0 258.0 222.0 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 258.0 238.0 188.0 241.0 2721.0 1980 3.42 30,000 313 333 273 235 217 178 1981 3.43 30,084 166 163 3229 259 315 1993 3.45 30,0917 285 272 264 207 164 134 1993 3.45 30,0917 285 272 264 207 164 134	1981	8,762	8,762	155.0	140.0	171.0	207.0	242.0	284.0	-	-	-	-	-	-	-	
1984 8,955 8,955 132.0 166.0 214.0 210.0 257.0 251.0 289.0 270.0 254.0 223.0 146.0 137.0 2549.0 1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 253.0 223.0 146.0 137.0 2609.0 1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2606.0 1988	1982			-	-	-	-	-	-	-	-	-	-	-		-	
1985 9,026 9,026 130.0 141.0 197.0 234.0 286.0 304.0 288.0 270.0 253.0 223.0 146.0 137.0 2609.0 1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1989 9,906 9,906	1983	8,955	8,955	-	-	-	-	-	-	273.0	261.0	245.0	198.0	152.0	128.0		
1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1988	1984	8,955	8,955	132.0	166.0	214.0	210.0	257.0	251.0	289.0	270.0	254.0	223.0	146.0	137.0	2549.0	
1986 9,345 9,345 166.0 123.0 158.0 211.0 266.0 257.0 297.0 303.0 249.0 213.0 193.0 170.0 2606.0 1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1988	1985	9,026	9,026	130.0	141.0	197.0	234.0	286.0	304.0	288.0	270.0	253.0	223.0	146.0	137.0	2609.0	
1987 9,556 9,556 182.0 164.0 179.0 245.0 250.0 261.0 275.0 284.0 246.0 203.0 167.0 157.0 2613.0 1988	1986	•	9.345	166.0	123.0	158.0	211.0	266.0	257.0	297.0	303.0	249.0	213.0	193.0	170.0	2606.0	
1988			9.556	182.0	164.0	179.0	245.0	250.0	261.0	275.0		246.0	203.0	167.0	157.0	2613.0	
1989 9,906 9,906 299.0 319.0 251.0 237.0 225.0 222.0 - 1990 10,002 10,002 162.0 145.0 213.0 211.0 261.0 239.0 297.0 268.0 258.0 238.0 188.0 241.0 2721.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 // 1980 3.42 30,000 313 333 273 235 217 178 1981 3.43 30,084 166 166 183 229 259 315	1988	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		-	-	-	-	-		-	_	-			
PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 /A 1980 3.42 30,000 313 333 273 235 217 178 1981 3.43 30,084 166 166 183 229 259 315 1982 3.44 285 272 264 207 164 134 1983 3.45 30,917 285 272 264 207 164 134 1984 3.46 31,003 137 185 223 226 267 270 301 281 273 232 157 143 225 0.2 1985 3.47 31,335 134 161 203 249 294 323 296 278 269 230 155 141 228 0.2 1986 3.48 32,531 165 135 157 216 264 263 295 300 255 211 198 169 219 0.2 1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1989 3.51 34,768	1989	9.906	9.906	-	-	-	-	-	-	299.0	319.0	251.0	237.0	225.0	222.0		
YEAR PER POPULA-OF PER CAPITA WATER USE (gpcd)/3 - ANNUALLY gpcd af OF CONNEC-TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 // 1980 3.42 30,000 -			•	162.0	145.0	213.0	211.0	261.0	239.0	297.0	268.0	258.0	238.0	188.0	241.0	2721.0	
YEAR PER POPULA- OF PER CAPITA WATER USE (gpcd)/3 - ANNUALLY gpcd af gpcd af gpcd RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 // 1980 3.42 30,000 -		2520010															
OF CONNEC- TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 // 1980 3.42 30,000 313 333 273 235 217 178 1981 3.43 30,084 166 166 183 229 259 315 1982 3.44 285 272 264 207 164 134 1983 3.45 30,917 285 272 264 207 164 134 1984 3.46 31,003 137 185 223 226 267 270 301 281 273 232 157 143 225 0.2 1985 3.47 31,335 134 161 203 249 294 323 296 278 269 230 155 141 228 0.2 1986 3.48 32,531 165 135 157 216 264 263 295 300 255 211 198 169 219 0.2 1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1988 3.50	VEAD							DED CAD	TTA LIAT	CD LICE	(amoult)	7				ALBERTAL I V	
1980 3.42 30,000 313 333 273 235 217 178 1981 3.43 30,084 166 166 183 229 259 315								PER LAP	TIN MAI	ER USE	(gpcd)/	3					-6-
1980				IAM	FFR	MAD	400	MAY	III no		4110	CED	CCT	MONE	DEC		
1980 3.42 30,000 - - - - - - 313 333 273 235 217 178 - - - - - - - - - - - - - - - - -		* 2 014	SERVED	JAN	FCB	MAK	APK	PAT	JUN	JUL	AUG	3EP	001	NOV	DEC	/3	/*
1981 3.43 30,084 166 166 183 229 259 315 - </td <td></td> <td></td> <td>30,000</td> <td>-</td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> <td>317</td> <td>332</td> <td>272</td> <td>235</td> <td>217</td> <td>179</td> <td></td> <td>-</td>			30,000	-			_	_		317	332	272	235	217	179		-
1982 3.44 - - - - - - - - - - - - - - - - -																	
1983 3.45 30,917 - - - - - - 285 272 264 207 164 134 - - 1984 3.46 31,003 137 185 223 226 267 270 301 281 273 232 157 143 225 0.2 1985 3.47 31,335 134 161 203 249 294 323 296 278 269 230 155 141 228 0.2 1986 3.48 32,531 165 135 157 216 264 263 295 300 255 211 198 169 219 0.2 1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1988 3.50 - - - - - - - - - - - - - - - -			30,004							į							
1984 3.46 31,003 137 185 223 226 267 270 301 281 273 232 157 143 225 0.2 1985 3.47 31,335 134 161 203 249 294 323 296 278 269 230 155 141 228 0.2 1986 3.48 32,531 165 135 157 216 264 263 295 300 255 211 198 169 219 0.2 1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1988 3.50 -			30 017							205			207	141	17/		
1985 3.47 31,335 134 161 203 249 294 323 296 278 269 230 155 141 228 0.2 1986 3.48 32,531 165 135 157 216 264 263 295 300 255 211 198 169 219 0.2 1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1988 3.50 - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																	
1986 3.48 32,531 165 135 157 216 264 263 295 300 255 211 198 169 219 0.2 1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1988 3.50 -																	
1987 3.49 33,357 176 176 173 245 242 261 266 275 246 196 167 152 215 0.2 1988 3.50 - <td></td>																	
1988 3.50																	
1989 3.51 34,768 277 296 241 220 216 206 1990 3.52 35,200 148 147 195 200 239 226 272 246 244 218 178 221 212 0.2			33,35/						201					16/	152	215	
1990 3.52 35,200 148 147 195 200 239 226 272 246 244 218 178 221 212 0.2			7/ 7/0						-					244	201		-
			•													242	-
AVERAGE 154 162 189 227 261 276 288 285 258 219 181 168 220 0.2	1990	3.52	35,200	148	14/	195	200	239	226	2/2	246	244	218	178	221	212	0.2
	VERAGE			154	162	189	227	261	276	288	285	258	219	181	168	220	0.24

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SAN DIEGO				GENCY					ISTRICT		ORIGIN	OF WATE	R (in p	ercent):	
	RANCHO SA			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #		• • • • • • • • •	37023									SURFA	CE WATE	R	NA	
HYDROLOG	IC REGION		SOUTH (COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	NA	
PLANNING	SUBAREA	#	SAN DIE	GO												
DAU #			120		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY		X						
1980		14,970	/5		ОТН	ER						PURCH	ASED		70	
1990		19,625	/5									SELF	SUPPLIE	D	30	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	5.772		Heter	ed	NA		Meter	ed	NA		Meter	ed	NA		
Flat R	ate	. 0		Flat	Rate	NA		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,000	5,000	/6	-	-	-	-	-	-	-	-	-	-		-	
1981	5,216	5,216	154.0	104.0	299.0	227.0	285.0	378.0	418.0	407.0	335.0	280.0	216.0	125.0	3228.0	
1982		·		-	-	-	-	-	-		-		-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	5,527	5,527	147.0	218.0	310.0	293.0	407.0	412.0	463.0	443.0	398.0	330.0	170.0	100.0	3691.0	
1985	5,648	5,648	142.0	144.0	207.0	270.0	357.0	390.0	462.0	481.0	390.0	351.0	186.0	130.0	3510.0	
1986	5,752	5,752			138.0			402.0				280.0	243.0	171.0	3475.0	
1987	5,869	5.869	178.0	186.0	188.0				498.0			289.0	179.0		3878.0	
1988	5,947	5.939	166.0		315.0		428.0			492.0			217.0			
1989	6,016	6,008	188.0		301.0											
1990	6,020	6,020			247.0											
	PERSONS															
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.99	14,970	•	-	-	-	-	-			-	•	•	-	-	-
1981	3.02	15,755	315	236	612	480	584	800	856	833	709	573	457	256	561	0.629
1982	3.05		-	-	-	-	-	-	•	-	•		-	•	•	-
1983	3.07		-		-	-	-	-	-	-	•	-	-	-	-	-
1984	3.10	17,136	277	439	584	570	766	801	872	834	774	621	331	188	590	0.661
1985	3.13	17,661	259	291	378	510	652	736	844	879	736	641	351	237	544	0.610
1986	3.15	18,139	365	197	245	461	694	739	818	848	658	498	447	304	525	0.588
1987	3.18	18,664	308	356	325	627	702	805	861	906	836	499	320	277	569	0.638
1988	3.21	19,071	281	403	533	510	724	822	859	832	783	653	379	328	595	0.666
1989	3.23	19,452	312	318	499	667	710	742	857	905	744	604	548	534	622	0.696
1990	3.26	19,625	302	291	406	377	654	662	832	789	741	685	540	460	564	0.631
AVERAGE			302	316	448	525	686	763	850	853	748	597	422	323	571	0.640
HILLIANGE			202	310	770	100	000	100	000	000	. 40	371	766		211	0.010

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{/5} Serves a portion of the City of Solana Beach including Rancho Santa Fe.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{6/} Missing data is unavailable

	SAN DIEGO				GENCY					,		ORIGIN	OF WATE	R (in p	ercent):	
		CITY, ET		TIPE OF	AGENCI		PUBLIC	MAIER D	ISIKICI			SIRFA	CE WATE	0	91	
				COAST		SYSTE	M SERVE	S:					AND SP			
		#													-	
					ENT	IRE CIT	γ									
5110 H 11					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		120,000			ОТН	ER				. х		PURCH	ASED		91	
		-										SELF	SUPPLIE	D	9	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Netere	d	29,088		Meter	ed	2,746		Meter	ed	65		Meter	ed	353		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	23,000	23,000	478.0	405.0	429.0	517.0	548.0	734.0	799.0	774.0	701.0	657.0	621.0	554.0	7217.0	
1981	25,732	23,251	563.0	507.0	457.0	484.0	584.0	598.0	808.0	815.0	767.0	699.0	686.0	575.0	7543.0	
1982	28,464	23,502	551.0	422.0	488.0	432.0	556.0	640.0	713.0	839.0	665.0	735.0	647.0	639.0	7327.0	
1983	31,196	23,953	486.0	457.0	414.0	497.0	534.0	572.0	863.0	832.0	768.0	679.0	565.0	500.0	7167.0	
1984	31,143	23,521	535.0	591.0	700.0	684.0	810.0	813.0	890.0	860.0	827.0	733.0	589.0	511.0	8543.0	
1985	32,222	23,331	531.0	512.0	622.0	724.0	821.0	883.0	960.0	960.0	825.0	788.0	595.0	568.0	8789.0	
1986	32,957	29,226	598.0	484.0	569.0	695.0	860.0	846.0	943.0	1011.0	786.0	695.0	644.0	580.0	8711.0	
1987	33,559	29,202	571.0	532.0	545.0	660.0	756.0	774.0	862.0	878.0	775.0	682.0	551.0	553.0	8139.0	
1988	34,239	29,973	563.0	561.0	670.0	640.0	770.0	806.0	867.0	861.0	814.0	740.0	610.0	589.0	8491.0	
1989	35,232	30,503	532.0	517.0	660.0	747.0	787.0	796.0	911.0	916.0	805.0	715.0	679.0	659.0	8724.0	
1990	32,263	23,205	542.0	494.0	614.0	621.0	733.0	742.0	813.0	809.0	761.0	719.0	621.0	576.0	8045.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3	-			ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980		120,000	128	116	115	144	147	204	215	208	195	177	173	149	165	0.185
1981	5.39	138,682	131	131	106	116	136	144	188	190	184	163	165	134	149	0.167
1982	5.56	158,304	112	95	99	91	113	135	145	171	140	150	136	130	127	0.142
1983	5.73	178,866	88	91	75	93	96	107	156	150	143	122	105	90	110	0.123
1984	5.91	183,921	94	111	123	124	142	147	156	151	150	129	107	90	127	0.143
1985	6.08	195,838	87	93	102	123	135	150	158	158	140	130	101	94	123	0.138
1986	6.25	205,976	94	84	89	112	135	137	148	158	127	109	104	91	116	0.130
1987		215,514	85	88	82	102	113	120	129	131	120	102	85	83	103	0.116
1988		225,772	80	86	96	94	110	119	124	123	120	106	90	84	103	0.115
1989	6.77	238,383	72	77	89	104	106	111	123	124	113	97	95	89	100	0.112
1990	6.94	223,846	78	79	88	92	106	110	117	117	113	104	92	83	98	0.110
AVERAGE			95	96	97	109	122	135	151	153	141	126	114	101	120	0.135

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily4/ afpca - acre-feet per capita annually

COUNTY	SAN DIEGO				GENCY						D	ORIGIN	OF WATE	R (in p	ercent):	
CITY	CHULA VIS	TA & VIC.		TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT	S						
SYSTEM #			37034									SURFA	CE WATE	R	96	
IYDROLOG	IC REGION		SOUTH C	COAST		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	4	
LANNING	SUBAREA	#	SAN DIE	GO												
AU #			120		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
ITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		83,927			OTH	ER						PURCH	ASED		87	
1990		135,163										SELF	SUPPL IE	D	13	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	CIAL:			INDUSTR	: LAI			GOVERNM	ENTAL:			
Metere	d	55,993		Meter	ed	4,101		Meter	ed	139		Meter	ed	352		
Flat R	ate	0		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR		SERVICE				TOTAL &	MATER IN	ITO SYST	EM (MIL	LION G/	ILLUNS)					
OF		TIONS /2	1000		MAD	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	3CP	001	HUV	DEC	MINUAL	
1980	46.068	46,068		589.0	607.0	626.0	751.0	910.0	1058.0	1158.0	1121.0	970.0	914.0	736.0	10104.0	
1981	46,269	46,269													7556.0	
1982	46,531														11584.0	
1983	46,806	•													7058.0	
1984	48,750														8513.0	
1985	49,833														8836.0	
1986	53,529	53,529													13524.0	
1987	55,744	55,744													13209.0	
1988	55,083	55,803													14452.0	
1989	62,674	62,674													15723.0	
1990	60,763	•													15986.0	
		AVERAGE								d min and b	a				ANNUALLY	
YEAR	PER	POPULA-					PER LAI	PITA WA	TER USE	(gpca)	, s					-6
OF	CONNEC-	TION								4110	050	007	MON	DEC	gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/
1980	1.82	83,927	255	242		249	289	361	407	445	445	373	363	283	330	0.3
1981	1.86	86,156	195	196		207			301	295	279	246	228	199	240	0.2
1982	1.90	88,517	239	259		322				510	427	432	311	250		0.4
1983	1.94	90,925	161	160		153			304	294	278	240	202	177	213	0.2
1984	1.98	96,664	178	210		234				287	284	244	202			0.2
1985		100,818	170	181		247		292		307	272	251	199	181	240	0.2
1986		110,451	258	221			394			471	381	308	296	259	335	0.3
1987		117,265	239	249		310			399	409	368	300	242			0.3
1988		118,093	236	263		300			430	416	415	359	272			0.3
1989		136,890	207			324				413	361	308	289			0.3
1990		135,163	217	230		321				411	392	329	307			0.3
		,										-				
AVERAGE			214	221	239	272	311	345	380	387	355	308	265	232	295	0.3

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} efpca - acre-feet per capita annually

	A.I.I. P			LIATED 4	CENCY		VALL TO	TOE CO	NTV IIAT	ED DICT	DICT	001014	OE 147	D / i	eneerth:	
	SAN DIEGO				GENCY					EK DIST	KICI	OKIGIN	UP WATE	k (in p	ercent):	
	SAN MARCO			TTPE UP	AGENCT		PUBLIC	HATER D	ISIKICI			CIDEA	CE LIATE			400
				0407		CVCT	M ccm-	٠.					CE WATE			100
						21215	M SERVE	5:				METEZ	AND SP	KINGS		(
		#		:G0												
DAU #	• • • • • • • • •	• • • • • • • • •	120				Υ									
							Y PLUS			Х		SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL						THE CI									
		-			ОТН	ER	• • • • • • •	•••••	• • • • • • • •				ASED			10
1990		40,000										SELF	SUPPL 1E	D		1
					SERVI CE	CONNEC										
RESIDENT	IAL:			COMMERC				INDUSTR				GOVERNM				
Metere	d	9,872		Meter	ed	1,250		Meter	ed	510		Meter	ed	94		
Flat R	ate	1		Flat	Rate	1		Flat	Rate	0		Flat	Rate	0		
YEAR OF	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,000	6,000	/5													
1981	0,000	0,000	/5			_		_								
1982				_				_	_					_		
1983	6,950	4.250				_			383.0	337.0	354.0	220.0	176.0	104.0		
1984	6,950	4,250	151.0	176.0	291.0	281.0	349.0	326.0	401.0	378.0	386.0	323.0	203.0		3390.0	
1985	7,229	4,480	144.0	148.0	201.0	256.0	338.0	399.0	454.0	434.0	352.0	348.0	203.0		3436.0	
1986	•	4,460	241.0	136.0	178.0	272.0	391.0	397.0	452.0	474.0	330.0	270.0	260.0		3583.0	
1987	7,761		193.0	212.0	175.0	325.0	364.0	397.0	419.0	415.0	390.0	262.0	175.0	169.0		
	8,700	5,850	177.0	253.0	336.0	302.0	394.0	415.0	464.0	456.0	438.0	388.0	266.0	248.0		
1988	9,069	6,120			287.0		378.0		486.0	474.0	481.0	376.0			4435.0	
1989 1990	9,340 10,360	6,340 7,360	231.0 230.0	224.0	326.0								316.0			
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3	•			ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	5.00	30,000	-	-	-	-	-	-	-	-	-	-	-	-		-
1981	5.04		-	-	-	•	-	-	-	-	-	•	•	•		-
1982	5.09		-	-	-	•	-	-	-	-	-	-	-	-	-	-
1983	5.13	35,657	-	-	-	•	-	-	346	305	1.1	199	165	94	-	-
1984	5.17	35,959	135	169	261	260	313	302	360	339	358	290	188	112	258	0.28
1985	5.22	37,717	123	140	172	226	289	353	388	371	311	298	179	136	250	0.28
1986	5.26	40,830	190	119	141	222	309	324	357	374	269	213	212	144	240	0.26
1987	5.30	46,148	135	164	122	235	254	287	293	290	282	183	126	118	208	0.23
1988	5.35	48,499	118	180	223	208	262	285	309	303	301	258	183	165	234	0.26
1989	5.39	50,355	148	159	184	228	242	283	311	304	318	241	249	224	241	0.27
1990	5.43	56,304	132	128	187	172	227	233	288	277	281	255	187	170	212	0.23
AVERAGE			140	151	184	222	271	295	332	320	306	242	186	145	235	0.26

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

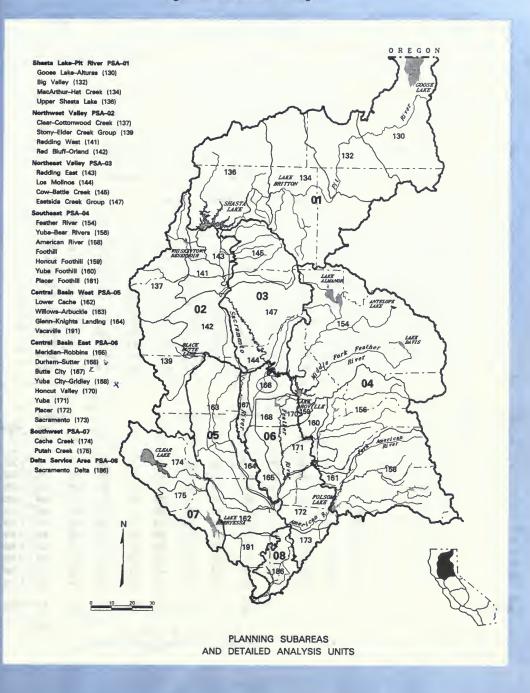


Table A-7. Sacramento River Region Water Production and Per Capita Water Use

COUNTY	МОДОС			WATER A	GENCY	/	LTURA	S, CITY (OF.			ORIGIN (OF WATER	(in pe	ercent):	
CITY	ALTURAS			TYPE OF	AGENCY.		UNICI	PAL WATER	R DEPAR	THENT						
SYSTEM #	f		25001									SURFAC	E WATER	· · · · · ·	0	
HYDROLOG	IC REGION		SACRAME	NTO RIV	ER	SYSTE	1 SERV	ES:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	SHASTA	LAKE-PI	T RIVER											
DAU #			130		ENT	RE CITY	í									
					ENT	RE CIT	PLUS	OUTSIDE.		X		SOURCE (OF WATER	(in pe	ercent):	
CITY CEN	ISUS POPUL	ATION			POR1	TION OF	THE C	ITY						•		
1980		3,025			OTHE	R						PURCH	ASED		0	
													SUPPLIE		100	
		-,			SERVICE	CONNECT	TIONS	/1								
RESIDENT	TAL :			COMMERC				INDUSTR	IAI :			GOVERNM	ENTAL :			
	d	1,427			ed	204			ed	NA			ed	15		
	ate	•			Rate	0			Rate	0			Rate	1		
rial K	ate	31		rtat	Nate	•		rtati	vare	·		rtat		'		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER II	NTO SYSTE	EM (MILI	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,256	1,211	17.0	12.0	18.0	22.0	28.0	45.0	63.0	65.0	22.0	29.0	25.0	17.0	363.0	
1981	1,293	1,243	14.0	14.0	14.0	29.0	33.0	42.0	64.0	52.0	58.0	37.0	10.0	11.0	378.0	
1982	1,271	1,222	19.0	15.0	16.0	28.0	40.0	27.0	53.0	73.0	42.0	20.0	22.0	13.0	368.0	
1983	1,550	1,504	22.0	18.0	16.0	17.0	25.0		57.0	59.0	38.0	23.0	14.0	25.0	356.0	
1984	1,569	1,523	12.0	17.0	16.0	17.0	24.0	69.0	58.0	58.0	36.0	24.0	15.0	24.0	370.0	
1985	1,586	1,540	13.0	18.0	16.0	19.0	26.0		81.0	64.0	40.0	36.0	19.0	32.0	431.0	
1986	1,537	1,491	17.0	23.0	14.0	17.0	23.0		70.0	67.0	53.0	18.0	17.0	16.0	403.0	
1987	1,533	1,495	15.0	19.0	14.0	20.0	38.0		54.0	62.0	54.0	30.0	16.0	16.0	384.0	
1988	1,531	1,493	17.0	18.0	17.0	20.0	21.0		62.0	70.0	52.0	26.0	19.0	16.0	385.0	
1989	1,531	1,493	18.0	22.0	19.0	22.0	32.0		79.0	42.0	41.0	21.0	16.0	17.0	386.0	
1990	1,684	1,646	18.0	17.0	16.0	24.0	37.0		56.0	58.0	40.0	28.0	16.0	17.0	360.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WATI	ER USE	(gpcd)/3	3	•		-	WNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	2.50	3,137	175	132	185	234	288	478	648	668	234	298	266	175	317	0.355
1981	2.44	3,161	143	158	143	306	337	443	653	531	612	378	105	112	328	0.367
1982	2.39	3,039	202	176	170	307	425	296	563	775	461	212	241	138	332	0.372
1983	2.34	3,623	196	177	142	156	223	386	508	525	350	205	129	223	269	0.302
1984	2.28	3,583	108	164	144	158	216		522	522	335	216	140	216	283	0.317
1985	2.23	3,537	119	182	146	179	237		739	584	377	328	179	292	334	0.374
1986	2.18	3,346	164	245	135	169	222		675	646	528	174	169	154	330	0.370
1987	2.12	3,255	149	208	139	205	377		535	614	553	297	164	159	323	0.362
1988	2.07	3,169	173	196	173	210	214		631	713	547	265	200	163	333	0.373
1989	2.02	3,087	188	255	199	238	334	615	825	439	443	219	173	178	343	0.384
1990	1.96	3,306	176	184	156	242	361	333	546	566	403	273	161	166	298	0.334
AVERAGE			163	189	157	219	294	497	622	598	440	260	175	180	317	0.355
ATLANCE				109	121	617	274	47/	022	270	440	200	173	100	311	(,,,,,

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SHASTA							COUNTY L		SIKICI		ORIGIN C	T WATER	(in pe	ercent):	
CITY				TYPE OF	AGENCY.	F	PUBLIC	WATER DI	STRICT							
		•••••											E WATER		0	
		\$					SERVE	S:				WELLS	AND SPE	INGS	100	
		#		LAKE - F												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	134													
								OUTSIDE.				SOURCE C	OF WATER	(in pe	rcent):	
	D POPULAT							Τγ								
	• • • • • • • • • • • • • • • • • • • •	-			OTHE	R	• • • • • • •	•••••	•••••	Х			SED		0	
1990	• • • • • • • • •	4,410						**				SELF S	SUPPLIED		100	
					ERVICE	CONNECT	IONS									
RESIDENT			1	COMMERCI				INDUSTRI		_		GOVERNME				
	d				ed	151			d	2			d	NA		
Flat R	ate	2		Flat F	late	0		Flat R	ate	2		Flat F	ate	1		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER IN	ITO SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,481	1,481	14.7	13.1	14.8	16.2	25.8	31.1	48.8	47.4	29.4	20.9	15.9	14.6	292.7	
1981	1,495	1,494	13.0	11.0	14.0	17.0	31.0	45.0	56.0	51.0	36.0	14.0	12.0	13.0	313.0	
1982	1,516	1,514	14.0	12.0	13.0	17.0	36.0	36.0	46.0	44.0	26.0	16.0	13.0	14.0	287.0	
1983	1,538	1,536	15.0	13.0	14.0	14.0	29.0	37.0	48.6	42.9	29.0	18.2	15.8	14.4	290.9	
1984	1,646	1,644	15.0	12.3	14.3	15.7	35.3	43.0	44.4	39.2	24.1	12.9	10.9	11.6	278.7	
1985	1,646	1,644	10.0	10.0	10.9	18.9	28.4	40.0	46.0	38.5	16.6	14.0	12.7	11.5	257.5	
1986	1,660	.,,	11.0	11.0	13.0	13.0	22.5	41.5	49.0	44.0	24.0	12.0	13.0	12.0	266.0	
1987	1,672		12.0	10.6	13.6	20.0	33.0	41.6	50.2	46.2	43.1	21.0	12.2	11.1	314.6	
1988	1,686	1,686	11.0	17.0	12.7	17.3	20.4	35.0	51.8	43.7	30.2	21.8	11.6	12.9	285.4	
1989	1,724	.,	12.4	12.9	12.4	17.7	23.7	38.3	48.4	42.5	29.0	16.7	12.6	24.8	291.3	
1990	1,760	1,760	24.1	33.2	27.1	39.6	37.5	46.8	63.2	48.7	45.4	32.2	22.2	41.4	461.4	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAD	PITA WATE	D LICE	and)	ŧ				UNUALLY	
OF	CONNEC-	TION					LK LA	AIN MAIL	N OOL ((Speciff.	•			,	gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.51	3,710	128	122	129	145	225	279	424	412	264	182	143	127	216	0.242
1981	2.51	3,745	112	105	121	151	267	401	482	439	320	121	107	112	229	0.256
1982	2.51	3,798	119	113	110	149	306	316	391	374	228	136	114	119	207	0.232
1983	2.51	3,853	126	120	117	121	243	320	407	359	251	152	137	121	207	0.232
1984	2.51	4,124	117	103	112	127	276	348	347	307	195	101	88	91	185	0.207
1985	2.51	4,124	78	87	85	153	222	323	360	301	134	110	103	90	171	0.192
1986	2.51	4,159	85	94	101	104	175	333	380	341	192	93	104	93	175	0.196
1987	2.51	4,189	92	90	105	159	254	331	387	356	343	162	97	85	206	0.230
1988	2.51	4,224	84	139	97	137	156	276	396	334	238	166	92	99	185	0.207
1989	2.51	4,320	93	107	93	137	177	296	361	317	224	125	98	185	185	0.207
1990	2.51	4,410	176	269	198	299	274	354	462	356	343	236		303	287	0.321

^{1/} Number of services

400

248

144 114 129 205 0.229

110 123 115 153 234 325

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

³⁵⁴ 3/ gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SISKIYOU				GENCY							ORIGIN (OF WATER	(in p	ercent):	
	MOUNT SHA			TYPE OF	AGENCY.		MUNICIP/	L WATER	DEPART	TMENT						
													CE WATER		0	
						SYSTE	4 SERVES	S:				WELLS	AND SPE	RINGS	100	
		#		LAKE-PI												
DAU #			136				Y PLUS (x		Source (DE WATER	(in n	ercent):	
CITY CEN	SUS POPUL	ATION					THE CIT								.,	
												PURCH	ASED		0	
		•											SUPPL I ED		100	
		-,			SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			NOUSTRI	IAL:			GOVERNME	ENTAL:			
Metere	d	0		Meter	ed	0		Metere	ed	0		Meter	ed	0		
	ate				Rate	268			Rate	2			Rate	18		
YEAR OF		SERVICE TIONS /2			1	TOTAL W	ATER IN	O SYSTE	EM (MILI	.ION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FES	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,306	1,206	23.6	21.4	24.3	27.8	39.9	44.8	75.4	69.0	46.3	34.2	23.3	23.1	453.1	
1981	1,307	1,207	24.0	21.0	24.0	28.0	40.0	45.0	77.0	79.0	70.0			-	-	
1982	/5											-	-		-	
1983	•		-	-	-	-	-	-	-	-	-	-	-		-	
1984			-	-	-	-	-	-	-	-	-		-	-	-	
1985			-	-	-	-	-	-	-	-	-	-	-	-		
1986			-	-	-	-	-	-	_	-	-	-	-	-	-	
1987	1,364	1,288	35.0	35.0	35.0	35.0	70.0	78.0	80.7	92.3	70.8	52.1	28.2	28.5	640.6	
1988	1,383	1,331	29.8	27.8	34.2	39.5	45.1	58.8	97.3	92.6	72.5	51.0	29.2	29.7	607.5	
1989	1,411	1.383	32.0	32.9	32.1	39.1	46.6	73.8	94.5	86.9	61.4	41.8	33.2	34.1	608.4	
1990	1,445	1,417	32.8	31.6	36.3	46.5	58.3	67.1	86.2	78.5	66.1	49.2	36.2	33.6	622.4	
	PERSONS	AVERAGE											,			
YEAR	PER	POPULA-				1	PER CAP	TA WATE	ER USE	(gpcd)/3	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.35	3,072	248	240	255	302	419	486	791	725	503	359	252	243	404	0.45
1981	2.36	3,086	251	243	251	302	418	486	805	826	756	-	-	-	-	-
1982	2.37		-	-	-	-	-	-		-	-	-	-	-	-	-
1983	2.38		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	2.39		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	2.40		-	-	-	-	-	-	-	-	-	-	-		-	-
1986	2.41		-	-	-	-	-		-	-	-	-	-	-	-	-
1987	2.41	3,294	343	379	343	354	686	789	790	904	716	510	285	279	533	0.59
1988	2.42	3,352	287	286	329	393	434	585	936	891	721	491	290	286	496	0.55
	2.43	3,433	301	342	302	380	438	717	888	817	596	393	322	320	486	0.54
1989																
1989 1990	2.44	3,528	300	320	332	439	533	634	788	718	624	450	342	307	483	0.541

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrents, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data is unavailable

	. SHASTA		1	MATER A	GENCY	/	UNDERSO	N, CITY	OF		(ORIGIN C	OF WATER	(in p	ercent):	
	ANDERSON			TYPE OF	AGENCY.		UNICIPA	AL WATE	R DEPART	MENT						
SYSTEM #	f		45001									SURFAC	E WATER		0	
HYDROLOG	IC REGION		SACRAME	NTO RIV	ER	SYSTEM	SERVE	S:				WELLS	AND SPE	INGS	100	
PLANNING	SUBAREA	#	NORTHWE	ST VALLE	EY											
DAU #			141		ENTI	RE CITY										
					ENTI	RE CITY	PLUS (OUTSIDE		х		SOURCE (F WATER	(in p	ercent):	
CITY CE	ISUS POPUL	ATION			PORT	ION OF	THE CI	η								
1980.		7,381			OTHE	R						PURCHA	SED		0	
													SUPPLIED		100	
					SERVICE	CONNECT	TIONS	/1								
ESIDENT	TAL:			COMMERC				INDUSTR	IAL:			COVERNME	NTAL:			
	ed	2,125			ed	207			ed	3			ed	19		
	ate	•			Rate	0			Rate	0			late	0		
rtat A	ate			T COL 1	vare	•		, cat	Nate	•		r cat r	wee	•		
YEAR	ACTIVE	SERVICE			т	OTAL LI	TER IN	TO SYST	EM (MILL	ION CA	LOWS					
OF		TIONS /2				UINE W	18	5131	wi (mill	on an						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	313161		0/114													
1980	2,009	1,844	23.3	21.9	24.2	29.7	43.2	46.0	57.4	51.4	34.7	28.6	22.2	26.4	409.0	
1981	2.042	1,860	/5		-				-		-					
1982	2,156	1,971	,,,	_		_	_	_	_	_	_					
1983	2,024	1,834								_		_	_	_	_	
1984	2,077	1,888		_							_	_	_	_	_	
1985	2,156	1,955												_		
1986	2,138	2.038	_		-	-	42.9	69.0	79.5	76.0	44.0	33.7	31.2	18.8		
1987		-,	20.7	26.0	30.5	48.6	67.2	76.4	81.0	80.0	32.4	19.7			546.3	
	2,281	2,061	29.4	26.0	45.2	47.0	47.7						18.1 43.4	37.2 30.2		
1988	2,287	2,065	33.5	37.0	43.2	47.0	4/./	64.6	101.1	88.7	78.7 128.0	54.6 42.0	45.4 35.0	34.0	671.7	
1989	2,273	2,096		~ 4	70.0			110 7		90.0	128.0				-	
1990	2,359	2,172	31.1	29.1	39.8	53.5	04.3	119.3	92.5			56.5	37.9	36.9		
	PERSONS	AVERAGE														
	PER										_				ANNUALLY	
YEAR		POPULA-				F	PER CAP	ITA WAT	ER USE	(gpcd)/	3				1011001661	
YEAR OF	CONNEC-	TION				F	PER CAP	ITA WAT	er use ((gpcd)/	3				gpcd	afp
OF ECORD	TION	TION SERVED	JAN	FEB	MAR	APR	PER CAP	ITA WAT	JUL	(gpcd)/	SEP	ОСТ	NOV	DEC	gpcd /3	
OF ECORD	TION	TION SERVED	JAN 94	FEB	MAR 97							OCT 115	NOV 92		gpcd	/4
OF ECORD	TION	TION SERVED				APR	MAY	JUN	JUL	AUG	SEP			DEC	gpcd /3	/4
OF ECORD	TION 4.00	TION SERVED 8,041	94	94	97	APR 123	MAY 173	JUN 191	JUL 230	AUG 206	SEP 144	115		DEC	gpcd /3	0.15
OF ECORD 1980 1981	4.00 3.98	TION SERVED 8,041 8,136	94	94	97	APR 123	MAY 173	JUN 191	JUL 230	AUG 206	SEP 144	115		DEC	gpcd /3	0.15
OF ECORD 1980 1981 1982	4.00 3.98 3.97	TION SERVED 8,041 8,136 8,551	94	94	97	APR 123	173	JUN 191	JUL 230	AUG 206	SEP 144	115		DEC	gpcd /3	0.1
OF ECORD 1980 1981 1982 1983	4.00 3.98 3.97 3.95	TION SERVED 8,041 8,136 8,551 7,991	94	94	97	APR 123	173	JUN 191	JUL 230	AUG 206	SEP 144	115		DEC	gpcd /3	0.15
OF ECORD 1980 1981 1982 1983 1984	4.00 3.98 3.97 3.95 3.93	TION SERVED 8,041 8,136 8,551 7,991 8,163	94	94	97 - - -	APR 123	173 - -	JUN 191	JUL 230 - - -	AUG 206 - -	SEP 144	115		DEC	gpcd /3	0.15
OF ECORD 1980 1981 1982 1983 1984 1985	4.00 3.98 3.97 3.95 3.93 3.93	8,041 8,136 8,551 7,991 8,163 8,434	94	94	97	123	173 - - -	JUN 191	JUL 230	AUG 206	144 - -	115	92	106	gpcd /3	0.19
OF ECORD 1980 1981 1982 1983 1984 1985 1986	4.00 3.98 3.97 3.95 3.93 3.91 3.89	8,041 8,136 8,551 7,991 8,163 8,434 8,714	94	94	97 - - - -	123	MAY 173 - - - - 159	JUN 191 264	JUL 230 294	AUG 206 281	SEP 144 168	115 - - - - - 125	92 - - - - - 119	106 - - - - 70	gpcd /3 139	0.19
0F ECORD 1980 1981 1982 1983 1984 1985 1986	4.00 3.98 3.97 3.95 3.93 3.91 3.89 3.88	8,041 8,136 8,551 7,991 8,163 8,434 8,714 8,840	94 107	94 105	97 - - - - - - 111	123 183	MAY 173 - - - - 159 245	JUN 191 264 288	JUL 230 294 296	AUG 206 - - - 281 292	SEP 144 168 122	115 - - - - 125 72	92 - - - - - 119 68	106 - - - - 70	gpcd /3 139 - - - - - - 169	0.15
1980 1981 1982 1983 1984 1985 1986 1987	4.00 3.98 3.97 3.95 3.93 3.91 3.89 3.88 3.86	8,041 8,136 8,551 7,991 8,163 8,434 8,714 8,840 8,822	94 - - - - 107 122	94 105 145	97 - - - - - 111 165	123 183 178	173 	JUN 191 264 288 244	JUL 230 294 296 370	AUG 206 - - - 281 292 324	SEP 144 - - - 168 122 297	115 	92 - - - 119 68 164	106 - - - - 70 136 110	gpcd /3 139 169 209	0.19
0F ECORD 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	4.00 3.98 3.97 3.95 3.93 3.91 3.89 3.88 3.86 3.84	TION SERVED 8,041 8,136 8,551 7,991 8,163 8,434 8,714 8,840 8,822 8,726	94 107 122 -	94 105 145	97 - - - - - 111 165	123 183 178	173 - - - 159 245 174	JUN 191 264 288 244	JUL 230 294 296 370 437	206 	SEP 144 168 122 297 489	115 - - - 125 72 200 155	92 - - - - 119 68 164 134	DEC 106 70 136 110 126	139	0.15

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

Tire protection, and other agenci

^{5/} Missing data unavailable

COUNTY	. SHASTA			MATER A	SENCY		ENTERVI	ILLE CSC)			ORIGIN C	F WATER	(in pe	ercent):	
	CENTERVIL	LE			AGENCY.									, p.		
												SURFAC	E WATER		100	
		S		NTO RIVE	R	SYSTE	SERVES	S:				WELLS	AND SPR	INGS	0	
		#N														
_			141			RE CITY	·									
					ENTI	RE CITY	PLUS (UTSIDE.				SOURCE C	F WATER	(in pe	ercent):	
ESTIMATE	D POPULAT	ION			POR1	ION OF	THE CIT	γ								
1980		1,916			OTHE	R				x		PURCHA	SED		100	
		-										SELF S	SUPPLIED		0	
					SERVICE	CONNECT	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:		1	INDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	ed	802		Meter	ed	NA		Metere	d	NA		Metere	ed	NA		
Flat R	Rate	0		Flat I	Rate	0		Flat F	late	NA		Flat F	late	NA		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER IN	TO SYSTE	M (MILL	ION GAI	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	618	618	/5	-	-	-	-	-	-	•	-	-	-	-	-	
1981			-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	•	
1983	618	618	-	-	-	-	-	-	30.4	25.7	22.0	12.7	5.3	5.7	-	
1984	630	630	6.2	6.2	8.4	9.8	20.8	28.0	37.4	33.8	27.3	10.9	7.1	5.5	201.3	
1985	642	642	6.3	6.4	8.2	14.7	23.3	28.9	33.9	29.5	15.2	13.4	7.4	6.7	193.9	
1986	648	648	5.8	5.3	7.6	12.3	22.7	34.1	39.5	38.1	19.9	14.3	10.8	7.6	218.0	
1987	677	677	7.3	6.1	6.7	19.4	29.7	37.6	38.2	38.5	33.4	21.6	8.5	6.9	254.0	
1988	703	703	6.4	8.9	14.9	15.6	16.6	26.4	46.7	43.9	36.2	26.8	8.0	8.3	258.7	
1989	750	750	7.6	8.0	7.4	13.3	22.4	37.8	46.6	45.0	29.2	15.5	11.5	10.3	254.3	
1990	785	785	8.8	7.6	12.2	20.9	28.2	33.2	46.5	42.5	35.5	29.5	15.1	13.3	293.4	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	ITA WATE	ER USE	(gpcd)/	3			1	ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.10	1,916		-	-				-		•	•	-		-	
1981	3.10		-	-	-	-	-	-	•	•	-	-	-	-	-	•
1982	3.10		-	-	-	-	-	-	-	-		-	-	•	-	•
1983	3.10	1,916	-	-	-	-	-	•	512	433	383	214	93	96	-	•
1984	3.10	1,953	102	109	138	168	344	478	617	558	466	180	120	91	282	0.316
1985	3.10	1,991	102	116	133	245	378	484	549	477	255	216	124	108	267	0.299
1986	3.10	2,009	93	95	123	203	364	566	634	611	330	229	180	122	297	0.333
1987	3.10	2,099	112	103	103	308	456	598	588	592	530	333	135	106	331	0.371
1988	3.10	2,180	95	141	221	239	246	403	691	650	553	396	122	123	325	0.364
1989	3.10	2,325	105	122	103	190	311	542	646	624	419	214	164	142	300	0.336
1990	3.10	2,434	116	112	162	286	373	455	616	564	486	390	207	177	330	0.370
AVERAGE			104	114	140	234	353	504	607	564	428	272	143	121	305	0.341

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data is not available.

YTTY	SHASTA				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	REDDING			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
YSTEM #			45005									SURFA	CE WATE	R	70	
	IC REGION				ER	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	30	
	SUBAREA				075.000											
AU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	141	143			γ									
							Y PLUS			Х		SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •	•			ОТН	ER	• • • • • • • •	• • • • • • •	• • • • • • •				ASED			
1990	• • • • • • • • • • • • • • • • • • • •	66,462										SELF	SUPPLIE	D	30	
					SERVICE	CONNEC		/1								
ESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed	•			ed				ed			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	13,959	13,255	151.0	145.0	157.0	183.0	296.0	310.0	471.0	582.0	445.0	312.0	200.0	177.0	3429.0	
1981	14.748	13.939	173.0		162.0							252.0			3909.0	
1982	14,883	14,046	202.0	184.0	195.0	212.0	425.0	429.0	481.0	506.0	353.0	275.0	196.0	194.0	3652.0	
1983	15,241	14,386	187.0		191.0										3520.0	
1984	16,008	15,268	207.0	200.0			422.0								4456.0	
1985	16,631	15,870	228.0	230.0		395.0						333.0			4709.0	
1986	17,860	17,117			238.0										4975.0	
1987	18,282	17,870	246.0			443.0			760.0						5714.0	
1988	18,886		251.0		398.0									297.0		
1989	20,077	19,780	291.0		289.0							441.0			5995.0	
1990	21,112				377.0										6890.0	
							·····								··	
YEAR	PERSONS	AVERAGE POPULA-					PER CAP	ITA WAT	FR USF	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION								(Speciff					good	afr
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
	3.17	44,225	110	113	115	138	216	234	344	425	335	228	151	129	212	0.2
1980		46,768	119	112	112	167	237	384	426	424	317	174	143	124	229	0.2
1980 1981	3.17						290	303	328	346	249	188	138	132	212	0.2
	3.17	47,238	138	139	133	150	670									0.2
1981		47,238 48,419	138 125	139 120	133 127	131	217	299	307	287	298	197	139	136	199	
1981 1982	3.17								307 473	287 411	298 318	197	139 139	136 138	240	0.2
1981 1982 1983	3.17 3.18	48,419	125	120	127	131	217	299								
1981 1982 1983 1984	3.17 3.18 3.18	48,419 50,901	125 131	120 135	127 141	131 164	217 267	299 362	473	411	318	184	139	138	240	0.2
1981 1982 1983 1984 1985	3.17 3.18 3.18 3.18	48,419 50,901 52,930	125 131 139	120 135 155	127 141 162	131 164 249	217 267 322	299 362 367	473 434	411 383	318 226	184 203	139 143	138 133	240 244	0.2
1981 1982 1983 1984 1985 1986	3.17 3.18 3.18 3.18 3.19	48,419 50,901 52,930 56,893 58,290	125 131 139 120	120 135 155 117	127 141 162 135	131 164 249 188	217 267 322 278	299 362 367 399	473 434 431	411 383 425	318 226 258	184 203 200	139 143 170	138 133 143	240 244 240	0.2 0.2 0.3
1981 1982 1983 1984 1985 1986 1987	3.17 3.18 3.18 3.18 3.19 3.19	48,419 50,901 52,930 56,893 58,290 60,270	125 131 139 120 136	120 135 155 117 136	127 141 162 135 141	131 164 249 188 253	217 267 322 278 351	299 362 367 399 427	473 434 431 421	411 383 425 433	318 226 258 351	184 203 200 273	139 143 170 152	138 133 143 140	240 244 240 269	0.2 0.2 0.3 0.2
1981 1982 1983 1984 1985 1986 1987 1988	3.17 3.18 3.18 3.18 3.19 3.19	48,419 50,901 52,930 56,893 58,290	125 131 139 120 136 134	120 135 155 117 136 164	127 141 162 135 141 213	131 164 249 188 253 217	217 267 322 278 351 230	299 362 367 399 427 322	473 434 431 421 486	411 383 425 433 431	318 226 258 351 393	184 203 200 273 292	139 143 170 152 145	138 133 143 140 159	240 244 240 269 267	0.2 0.2 0.3 0.2 0.2

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

	CHICO/HAM			TIPE OF	HULITOI			ON OWNED				OLID TA	OF 114			
	£												CE WATE		0	
	IC REGION					SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	100	
	SUBAREA			SI VALL												
DAU #			142					OUTSIDE		U		cor ince	OF LIATE			
CITY CEN	ISUS POPUL	ATTON						ITY		Х		SOURCE	OF WATE	c (in p	ercent):	
	ISUS PUPUL											DIDCU	ASED		0	
					OTH	EK							SUPPLIE		100	
1990	*********	40,019			SERVICE	CONNEC	TIONS	/1				SELF	SOFFLIE		100	
RESIDENT	TAL .			COMMERC		COMMEC	11043	INDUSTR	TAI -			GOVERNM	ENTAL .			
	d	3,424			ed	2 666			ed	41			ed	250		
	ate				Rate	0			Rate				Rate	2		
rtat k	ate	11,040		rtat	Kate	·		rtat	Nate	۰		rtat	Rate	_		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	13,297	7,048	210.7	210.0	272.7	388.0	546.8	602.8	853.1	788.8	577.6	426.5	304.1	238.6	5419.7	
1981	13,654	7,297	231.7	218.4	254.2	406.4	596.9	896.4	958.3	871.9	641.8	313.8	243.3	233.3	5866.4	
1982	13,982	7,545	235.9	227.0	244.8	322.9	708.1	698.4	793.0	770.2	519.2	379.4	239.2	226.4	5364.5	
1983	14,180	7,794	231.5	211.3	235.5	291.9	561.3	735.2	861.3	850.9	626.6	398.6	257.1	238.5	5499.7	
1984	14,560	8,043	241.1	242.2	344.0	417.8	759.4	813.8	1021.8	879.6	708.6	377.2	261.2	251.2	6317.9	
1985	15,048	8,292	250.5	297.1	314.4	521.0	749.4	965.1	1022.6	894.5	535.3	479.6	329.6	273.7	6632.8	
1986	15,467	8,540	260.5	245.3	333.5	441.1	781.9	920.5	1022.3	963.9	588.0	486.1	406.6	306.0	6755.7	
1987	15,891	8,789	290.7	274.8	336.0	602.3	862.9	983.1	978.7	985.9	794.4	598.5	334.2	318.7	7360.2	
1988	16,421	.,		375.1				855.3				653.3			7494.8	
1989	17,276							875.5							7043.0	
1990	17,989	9,535	325.4	317.1	459.9	664.7	758.7	883.7	1084.4	1005.1	823.6	700.4	423.1	412.2	7858.3	70
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WAT	TER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.77	50,190	135	144	175	258	351	400	548	507	384	274	202	153	296	0.33
1981	3.82	52,123	143	150	157	260	369	573	593	540	410	194	156	144	308	0.34
1982	3.86	53,975	141	150	146	199	423	431	474	460	321	227	148	135	272	0.30
1983	3.90	55,347	135	136	137	176	327	443	502	496	377	232	155	139	272	0.30
1984	3.95	57,455	135	145	193	242	426	472	574	494	411	212	152	141	301	0.33
1985	3.99	60,026	135	177	169	289	403	536	550	481	297	258	183	147	303	0.33
1986	4.03	62,360	135	140	173	236	404	492	529	499	314	251	217	158	297	0.33
1987	4.07	64,751	145	152	167	310	430	506	488	491	409	298	172	159	311	0.34
	4.12	67,615	151	191	260	275	303	422	524	457	409	312	176	151	304	0.34
1988		74 07/	139	156	143	246	343	406	476	442	316	206	178	162	268	0.30
	4.16	71,876	137	150												
1988	4.16 4.20	75,614	139	150	196	293	324	390	463	429	363	299	187	176	285	0.31

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	TEHAMA							CITY O				ORIGIN (OF WATER	(in pe	ercent):	
	CORNING			TYPE OF	AGENCY.		HUNICIP	AL WATER	DEPAR	TMENT						
SYSTEM #	f	• • • • • • • • • • • • • • • • • • • •	52001									SURFA	E WATER	· · · · · ·	0	
		:				SYSTE	4 SERVE	S:				WELLS	AND SPE	RINGS	100	
PLANNING	SUBAREA	#		ST VALL												
DAU #		• • • • • • • • • • • • • • • • • • • •	142					•••••		Х						
								OUTSIDE.				SOURCE (OF WATER	(in pa	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE CI	ΤΥ								
	• • • • • • • • •				OTHE	R	• • • • • •	•••••				PURCH	ASED		0	
1990	• • • • • • • • •	5,870										SELF S	SUPPL I EL		100	
					SERVICE	CONNECT		/1								
RESIDENT	TAL:		1	COMMERC	IAL:			INDUSTR	IAL:			GOVERNME	ENTAL:			
Metere	d	1,618		Meter	ed	154		Meter	ed	2		Meter	ed	4		
Flat R	tate	. 0		Flat	Rate	0		Flat I	Rate	0		Flat I	Rate	0		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER IN	ITO SYSTE	M (MIL	LION GA	LLONS					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,800	1,800	32.0	26.0	37.0	39.0	35.0	61.0	56.0	98.0	81.0	69.0	76.0	55.0	665.0	
1981	1,827	1,800	41.0	25.0	30.0	35.0	30.0	167.0	45.0	76.0	112.0	70.0	65.0	48.0	744.0	
1982	1,832	1,832	48.0	41.0	43.0	38.0	48.0	79.0	59.0	49.0	84.0	45.0	56.0	45.0	635.0	
1983	1,853	1,853	40.0	40.0	49.0	57.0	47.0	47.0	75.0	90.0	82.0	77.0	59.0	45.0	708.0	
1984	1,863	1,863	36.0	30.0	31.0	34.0	43.0	74.0	82.0	93.0	85.0	66.0	60.0	49.0	683.0	
1985	1,868	1,868	33.0	28.0	25.0	23.0	50.0	62.0	77.0	120.0	73.0	55.0	74.0	47.0	667.0	
1986	1,868	1,868	33.0 /5	20.0	30.0	32.0	37.0	47.0	78.0	75.0	71.0	48.0	48.0	35.0	307.0	
1987	1,869	1,869	42.0	34.0	33.0	37.0	49.0	68.0	84.0	65.0	58.0	58.0	47.0	17.0	592.0	
1988	1,990	1,990	32.0	26.0	24.0	22.0	48.0	61.0	76.0	128.0	89.0	79.0	44.0	30.0	659.0	
1989	1,838	1,838	34.0	39.0	33.0	42.0	70.0	75.0	92.0	89.0	51.0	54.0	45.0	39.0	663.0	
1990	1,845	1,845	38.0	34.0	42.0	56.0	71.0	75.0	94.0	77.0	77.0	78.0	53.0	31.0	726.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAR	PITA WATE	ER USE	(apped)/	3			,	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.64	4,745	218	189	252	274	238	429	381	666	569	469	534	374	384	0.430
1981	2.69	4,745	269	182	197	237	197	1,132	295	499	759	459	441	315	415	0.464
1982	2.75	5,029	308	291	276	252	308	524	378	314	557	289	371	289	346	0.387
1983	2.75	5,188	249	275	305	366	292	302	466	560	527	479	379	280	374	0.419
1984	2.85	5,318	218	195	188	213	261	464	497	564	533	400	376	297	352	0.394
1985	2.91	5,434	196	184	148	141	297	380	457	712	448	327	454	279	336	0.377
1986	2.96	5,536	170	104	175	193	216	283	455	437	428	280	289	204	-	0.577
1987	3.02	5,641	240	215	189	219	280	402	480	372	343	332	278	97	288	0.322
1988	3.07	6,114	169	147	127	120	253	333	401	675	485	417	240	158	295	0.331
1989	3.13	5,747	191	242	185	244	393	435	516	500	296	303	261	219	316	0.354
1990	3.18	5,870	209	207	231	318	390	426	517	423	437	429	301	170	339	0.380
1770	3.18	3,010	209	201	١٠	310	370	420	317	+23	457	767	301	.70	337	0.300
AVERAGE			227	213	207	234	284	464	440	520	489	380	357	244	344	0.386

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data unavailable

COUNTY	GLENN		1	WATER A	GENCY	c	RLAND,	CITY O	F		1	ORIGIN O	OF WATER	(in pe	ercent):	
CITY	ORLAND			TYPE OF	AGENCY.		UNICIF	PAL WATE	R DEPART	TMENT						
SYSTEM #	f		11001									SURFA	E WATER	2	0	
HYDROLOG	IC REGION	l:	SACRAME	NTO RIVI	ER	SYSTEM	SERVE	S:				WELLS	AND SPE	RINGS	100	
PLANNING	SUBAREA	#	NORTHWE	ST VALLE	EY											
DAU #			142		ENT1	RE CITY		•••••	• • • • • • •							
					ENTI	RE CITY	PLUS	OUTSIDE	• • • • • • •	х		SOURCE (OF WATER	(in pe	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE CI	TY	• • • • • • •							
1980		4,031			OTHE	R			• • • • • • •			PURCH	ASED		0	
1990		5,052										SELF S	SUPPLIED		100	
				:	SERVICE	CONNECT	IONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	1,885		Meter	ed	292		Meter	ed	17		Meter	ed	30		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE			1	TOTAL WA	TER 1	NTO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,552	1,527	12.8	20.6	24.7	29.0	56.8	45.8	76.2	68.8	47.6	42.4	23.5	21.8	470.0	
1981	1,648	1,636	21.3	19.5	24.0	41.3	55.0	96.7	88.9	78.6	57.6	33.3	22.3	23.8	562.3	
1982	1,651	1,651	22.4	20.6	25.9	27.3	66.2	72.8	73.0	86.6	35.8	29.9	26.6	25.7	512.8	
1983	1,660	1,660	21.5	24.4	25.1	26.4	42.8	-	83.6	71.1	76.0	55.9	41.4	24.5	-	
1984	1,776	1,776	26.9	22.4	21.6	30.1	41.0	82.0	86.1	80.7	97.7	45.8	45.0	35.7	615.0	
1985	1,893	1,893	11.0	23.6	27.8	34.9	45.9	60.7	76.6	78.4	59.9	30.2	38.4	31.8	519.2	
1986	2,136	2,136	26.6	29.0	21.0	29.3	34.7	76.0	77.7	86.4	104.2	49.9	31.8	22.0	588.6	
1987	2,172	2,172	49.6	14.9	20.7	32.6	48.7	64.8	97.8	69.0	77.6	55.9	58.6	27.1	617.3	
1988	2,207	2,207	28.7	23.3	29.0	54.0	43.8	50.0	70.3	90.0	80.1	93.7	36.0	27.3	626.2	
1989	2,212	2,212	28.4	31.5	24.2	32.1	44.1	83.8	101.8	82.2	51.4	37.7	27.5	35.7	580.4	
1990	2,224	2,224	34.3	31.4	44.1	56.3	69.4	68.7	108.3	97.9	63.2	62.4	42.0	43.2	721.2	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	ER CA	PITA WAT	ER USE	(gpcd)/	3			-	NNUALLY	
OF	CONNEC-	TION											•		gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.64	4,097	101	173	194	236	447	373	600	542	387	334	191	172	314	0.352
1981	2.60	4,290	160	162	180	321	414	751	669	591	448	250	173	179	359	0.402
1982	2.57	4,237	171	174	197	215	504	573	556	659	282	228	209	196	332	0.371
1983	2.53	4,199	165	208	193	210	329	-	642	546	603	429	329	188	-	-
1984	2.49	4,427	196	174	157	227	299	617	627	588	736	334	339	260	381	0.426
1985	2.46	4,649	76	181	193	250	319	435	532	544	430	210	275	221	306	0.343
1986	2.42	5,167	166	200	131	189	217	490	485	539	672	312	205	137	312	0.350
1987	2.38	5,174	309	103	129	210	304	417	610	430	500	349	378	169	327	0.366
1988	2.35	5,176	179	155	181	348	273	322	438	561	516	584	232	170	331	0.371
1989	2.31	5,106	179	220	153	210	279	547	643	519	336	238	180	226	311	0.349
1990	2.27	5,052	219	222	282	371	443	453	692	625	417	398	277	276	391	0.438
AVERAGE			175	179	181	253	348	498	590	559	484	333	253	199	336	0.377

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

CITYRED BLUFF TYPE OF AGENCYMUNICIPAL WATER DEPARTMENT SYSTEM #	X 1 0 N GALLONS	SOURCE PURCH SELF GOVERNM Heter Flat	IASED SUPPLIE	RINGS R (in po	0 100 ercent): 0 100	
#YDROLOGIC REGION	1 0 N GALLONS	SOURCE PURCH SELF GOVERNM Heter Flat	OF WATER ASED SUPPLIES BENTAL:	RINGS R (in po	100 ercent):	
#YDROLOGIC REGION	1 0 N GALLONS	SOURCE PURCH SELF GOVERNM Meter Flat	OF WATER	R (in po	ercent):	
DAU #	1 0 N GALLONS	PURCH SELF GOVERNM Meter Flat	IASED SUPPLIEI IENTAL:	29	0	
ENTIRE CITY PLUS QUTSIDE CITY CENSUS POPULATION PORTION OF THE CITY	1 0 N GALLONS	PURCH SELF GOVERNM Meter Flat	IASED SUPPLIEI IENTAL:	29	0	
CITY CENSUS POPULATION PORTION OF THE CITY	1 0 N GALLONS	PURCH SELF GOVERNM Meter Flat	IASED SUPPLIEI IENTAL:	29	0	
1980	0 N GALLONS	SELF GOVERNM Meter Flat	SUPPLIER	29	-	
1990	0 N GALLONS	SELF GOVERNM Meter Flat	SUPPLIER	29	-	
SERVICE CONNECTIONS /1 RESIDENTIAL: COMMERCIAL: INDUSTRIAL: Metered 1,566 Metered 392 Metered Flat Rate 1,534 Flat Rate 115 Flat Rate YEAR ACTIVE SERVICE TOTAL MATER INTO SYSTEM (MILLION OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 146.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 146.8 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0	0 N GALLONS	GOVERNIM Meter Flat	ENTAL:	29	100	
RESIDENTIAL: COMMERCIAL: INDUSTRIAL: Metered	0 N GALLONS	Meter Flat	ed			
Metered 1,566 Metered 392 Metered	0 N GALLONS	Meter Flat	ed			
Flat Rate 1,534 Flat Rate 115 Flat Rate YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116	0 N GALLONS	Flat				
YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116	N GALLONS	5)	Rate	3		
OF COMNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116						
OF COMNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116						
RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL 1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116	AUG S					
1980 3,626 3,551 41.0 37.6 36.8 51.9 130.3 143.0 115.1 116	AUG S				******	
1700 0700 0700		EP OCT	NOV	DEC	ANNUAL	
1700 0,000 0,000	6.2 82	.2 55.7	65.0	52.4	927.2	
1701	0.7 136	.8 65.9	44.3	55.7	1080.9	
1982 3,703 3,622 49.6 45.2 42.9 60.2 109.8 121.3		78.5	58.1	67.3	-	
1983 3,824 3,739 48.8 46.9 52.9 37.8 109.1 138.4 164.0 14	7.7 101	.4 50.3	87.9	76.9	1062.1	
	0.1 122	.8 73.0	49.7	56.6	1236.8	
1985 3,419 3,335 55.3 57.8 73.6 105.0 147.0 201.6 210.6 18	2.1 100	.7 110.2	56.6	57.0	1357.5	
	2.8 107	.8 93.1	85.9	63.7	1342.1	
	0.4 157	.9 122.7	79.9	61.3	1492.3	
	1.0 171	.4 137.0	103.5	44.2	1566.8	
1989 3,574 3,490 64.3 64.6 63.7 110.9 132.3 166.5 250.9 17.	2.4 167	.2 72.0	71.9	68.5	1405.2	
1990 3,638 3,549 76.8 61.6 149.9 117.8 159.4 174.7 200.1 10	3.2 153	.9 117.4	57.1	91.4	1463.3	
PERSONAL ALERANCE						
PERSONS AVERAGE YEAR PER POPULA- PER CAPITA WATER USE (gp	od) (B				ANNUALLY	
YEAR PER POPULA- PER CAPITA WATER USE (SP OF CONNEC- TION	lu//3				good	afpca
	AUG SI	EP OCT	NOV	DEC	/3	/4
1980 2.67 9,690 136 134 123 179 434 492 383	387 2	83 185	224	174	262	0.294
1981 2.75 10,059 141 127 132 150 361 583 488	547 4	53 211	147	179	294	0.330
1982 2.83 10,497 152 154 132 191 337 385 -	-	- 241	184	207	-	-
1983 2.92 11,150 141 150 153 113 316 414 474	427 3	03 146	263	222	261	0.292
1984 3.00 10,162 129 116 241 197 530 789 560	445 4	03 232	163	180	333	0.373
1985 3.08 10,524 170 196 226 333 451 639 646	558 3	19 338	179	175	353	0.396
1986 3.16 10,962 202 157 180 279 397 541 606	597 3	28 274	261	187	335	0.376
1987 3.24 11,558 202 222 140 335 490 622 526	503 4	55 342	230	171	354	0.396
1988 3.32 11,860 192 253 293 296 382 460 639	547 4	82 373	291	120	362	0.405
1989 3.40 12,160 171 190 169 304 351 456 666	457 4	58 191	197	182	317	0.355
1990 3.48 12,673 195 174 382 310 406 460 509	263 4	05 299	150	233	316	0.354

^{1/} Number of services

257 208

244 405 531

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Population is estimated.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{6/} Missing data is unavailable

COUNTY	BUTTE			WATER A	GENCY		PARAD I	SE IRRIG	ATION D	ISTRICT		ORIGIN (OF WATER	R (in p	ercent):	
CITY	PARADISE			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
												SURFA	CE WATER	R	100	
	IC REGION			TO RIVE	R	SYSTE	M SERVI	ES:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	NORTHEA	ST VALL	EY											
						IRE CIT	Υ									
					-			OUTSIDE		х		SOURCE	OF WATER	R (in p	ercent):	
	SUS POPUL							ITY								
	• • • • • • • • • • • • • • • • • • • •				OTH	ER	•••••	• • • • • • • •					ASED		0	
1990		25,408										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS									
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d				ed	674			ed	3		******	ed	30		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE					TOTAL W	ATER I	NTO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	, JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	8,372	8,359	61.4	59.6	74.9	107.3	171.0	233.7	339.9	331.3	232.1	148.3	87.9	75.3	1922.7	
1981	8,695	8,682	65.2	57.2	65.5	127.1	182.4	386.3	432.2	401.8	277.6	94.8	86.4	77.2	2253.7	
1982	9,066	9,053	72.7	65.5	80.6	93.0	257.0	334.2	326.2	380.8	208.9	113.0	81.3	70.0	2083.2	
1983	9,118	9,105	82.1	67.2	67.7	76.5	192.9	283.8	323.7	398.9	258.9	137.4	76.2	68.5	2033.8	
1984	9,181	9,168	83.0	80.7	105.0	117.2	265.5	276.0	448.7	405.4	261.3	140.1	89.6	83.6	2356.1	
1985	9,275	9,262	86.0	83.8	84.3	176.8	282.1	346.3	456.1	363.5	209.7	176.2	100.5	109.1	2474.4	
1986	9,324	9,310	92.8	83.7	106.6	140.7	197.7	335.4	375.7	374.3	236.8	140.1	106.8	117.4	2308.0	
1987	9,370	9,364	92.6	76.5	88.6	197.9	259.1	342.9	327.6	358.2	296.8	220.5	106.3	101.7	2468.7	
1988	9,477	9,474	91.0	114.3	146.6	148.9	149.6	230.7	346.4	385.7	320.3	243.3	112.2	106.5	2395.5	
1989	9,603	9,600	110.4	103.5	91.1	138.4	230.2	290.0	387.0	359.4	240.1	159.2	131.1	117.1	2357.5	
1990	9,693	9,690	115.5	97.1	116.8	211.9	218.0	240.8	386.5	353.0	266.3	258.9	133.5	161.5	2559.8	
VEAD	PERSONS	AVERAGE					DED CA	PITA WAT	ED LICE	(mind)	7				ANNUALLY	
YEAR	PER	POPULA-					PER UA	PIIA WAI	EK USE	(gpca)/	3					efpc
OF	CONNEC-	TION	1411	ren	MAD	400	MAY	11 100		ALIC	SEP	ОСТ	NOV	DEC	gpcd	/4
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	3EP		MOA	DEC	/3	
1980	2.70	22,606	88	91	107	158	244	345	485	473	342	212	130	107	233	0.261
1981	2.69	23,410	90	87	90	181	251	550	596	554	395	131	123	106	264	0.295
1982	2.68	24,338	96	96	107	127	341	458	432	505	286	150	111	93	235	0.263
1983	2.68	24,407	109	98	89	104	255	388	428	527	354	182	104	91	228	0.256
1984	2.67	24,504	109	114	138	159	350	375	591	534	355	184	122	110	263	0.295
1985	2.66	24,682	112	121	110	239	369	468	596	475	283	230	136	143	275	0.308
1986	2.65	24,740	121	121	139	190	258	452	490	488	319	183	144	153	256	0.286
1987	2.65	24,789	121	110	115	266	337	461	426	466	399	287	143	132	273	0.306
1988	2.64	24,998	117	158	189	199	193	308	447	498	427	314	150	137	263	0.294
1989	2.63	25,255	141	146	116	183	294	383	494	459	317	203	173	150	256	0.286
1990	2.62	25,416	147	136	148	278	277	316	491	448	349	329	175	205	276	0.309

^{1/} Number of services

348 219 137 130 256 0.287

114 116 123 189 288 409 498 493

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SIERRA		1	HATER A	GENCY		.OYALTO	M, CITY	OF			ORIGIN (OF WATER	(in p	ercent):	
CITYL								AL WATER		MENT						
												SURFA	E WATER		0	
				NTO RIV	ER	SYSTE	SERVE	S:				WELLS	AND SPR	INGS.	100	
		#														
			154		ENTI	RE CITY										
0/10 H 111								OUTSIDE.		X		SOURCE (NE MATER	(in n	ercent).	
CITY CENS	SIS POPUI	ATION						TY		^		occinat (-	· cm pa	in Contry.	
		1,030										DUDCU	ASED		0	
		1,191			01111								SUPPLIED		100	
1770		1,171			SERVICE	CONNECT	TONE	/1				SCLT .	SOPPLIED		100	
RESIDENTI	IAI •			COMMERC		CONNECT		INDUSTRI	At .			GOVERNIM	ENTAL .			
	d	4	,		ed	9		Metere		NA			ed	NA		
		465			Rate	35			ate	NA				1		
rtat Ra	ate	403		rtati	Kate	33		rtat	ale	ILA		rtat	Rate	'		
YEAR	ACTIVE				1	TOTAL W	TER IN	ITO SYSTE	M (MILI	ION GAL	LONS)					
OF		TIONS /2	IAM	CCD	MAD	ADD	MAN	W 164		4110	055	-007	1100	855	A4000101	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	480	381	10.0	10.0	10.0	13.0	20.0	22.0	29.0	28.0	17.0	9.0	10.0	9.0	187.0	
1981	508	410	9.0	10.0	9.0	13.0	18.0	30.0	35.0	32.0	20.0	11.0	9.0	9.0	205.0	
1982	508	410	11.0	9.0	10.0	12.0	21.0	22.0	28.0	27.0	16.0	9.0	8.0	9.0	182.0	
1983	526	428	9.0	7.0	8.0	8.0	13.0	22.0	32.0	21.0	15.0	9.0	8.0	8.0	160.0	
1984	526	428	9.0	9.0	9.0	10.0	23.0	26.0	33.0	32.0	21.0	10.0	9.0	10.0	201.0	
1985	524	423	10.0	9.0	10.0	14.0	27.0	30.0	33.0	29.0	14.0	11.0	9.0	9.0	205.0	
1986	524	423	9.0	6.0	10.0	13.0	21.0	31.0	30.0	32.0	17.0	10.0	9.0	9.0	197.0	
1987	514	414	9.0	9.0	9.0	16.0	18.0	28.0	30.0	33.0	24.0	15.0	8.0	9.0	208.0	
1988	516	416	9.0	9.0	12.0	17.0	24.0	25.0	30.0	34.0	24.0	15.0	9.0	9.0	217.0	
1989	516	416	9.0	9.0	12.0	17.0	24.0	25.0	36.0	23.0	20.0	21.0	13.0	10.0	219.0	
1990	513	418	13.0	9.0	8.0	12.0	20.0	27.0	33.0	25.0	20.0	18.0	8.0	10.0	203.0	
	PERSONS	AVERAGE			·											
YEAR	PER	POPULA-				F	PER CAP	ITA WATE	R USE	(apcd)/3				,	NNUALLY	
OF	CONNEC-	TION										•			gpcd	afpc
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.70	1,298	249	266	249	334	497	565	721	696	437	224	257	224	395	0.442
1981	2.72	1,381	210	259	210	314	421	724	818	748	483	257	217	210	407	0.456
1982	2.73	1,388	256	232	232	288	488	528	651	627	384	209	192	209	359	0.402
1983	2.75	1,445	201	173	179	185	290	507	714	469	346	201	185	179	303	0.340
1984	2.76	1,453	200	214	200	229	511	597	733	711	482	222	207	222	379	0.425
1985	2.78	1,455	222	221	222	321	599	687	732	643	321	244	206	200	386	0.432
1986	2.79	1,462	199	147	221	296	463	707	662	706	387	221	205	199	369	0.413
1987	2.81	1,442	201	223	201	370	403	647	671	738	555	336	185	201	395	0.443
4000	2.82	1,455	200	213	266	389	532	573	665	754	550	333	206	200	409	0.458
1988																
1989	2.83	1,463	198	220	265	387	529	570	794	507	456	463	296	221	410	0.459
	2.83 2.85	1,463 1,462	198 287	220 220	265 177	387 274	529 441	570 616	794 728	507 552	456 456	463 397	296 182	221 221	410 380	0.459

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.
Note: No lumber industry data

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	PLUMAS			WATER A	GENCY		PORTOLA	, CITY	OF .			ORIGIN	OF WATER	(in p	ercent):	
CITY	PORTOLA			TYPE OF	AGENCY.		MUNICIPA	AL WATE	R DEPART	TMENT						
SYSTEM #	ł	•••••	32003									SURFA	CE WATER	2	100	
		#			ER	SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	154				Υ									
CITY CEN	ISUS POPUL	ATTON					THE CI			х		SOURCE	OF WATE	t (in p	ercent):	
	isus rurul						INE CI					DEIDCH	ASED		36	
					OTHE	ж		• • • • • • •	• • • • • • •				SUPPL I EI		64	
1770		2,173			SERVICE	CONNEC	TIONS	/1				SELI	3077616	,	•	
ESIDENT	TAL :			COMMERC		COMILE		INDUSTR	TAL :			GOVERNM	ENTAL:			
	d	. 0			ed	0			ed	NA			ed	0		
	ate	-			Rate	119			Rate	NA			Rate	9		
		, ,,,												,		
YEAR OF		SERVICE			1	TOTAL W	ATER IN	TO SYST	EM (MILL	LION GAI	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	936	860	9.7	9.2	11.6	12.9	19.1	22.3	30.7	29.4	30.6	15.7	10.9	10.7	212.8	
1981	956	876	11.5	11.3	11.4	12.4	20.7	31.9	32.8	32.6	31.7	16.2	12.3	11.6	236.4	
1982	969	887	/5			12.4	20.7	31.7	35.7	32.6	18.6	21.0	11.3	11.5	230.4	
1983	982	898	13.6	11.6	12.5	19.6	20.3	27.0	41.1	23.1	23.5	13.0	13.3	15.8	234.4	
1984	986	909	16.3	15.8	16.8	11.3	27.4	28.7	37.3	32.4	23.0	13.3	12.3	13.8	248.4	
1985	990	920	15.1	16.3	17.4	14.3	27.9	29.8	41.0	27.0	23.0	13.0	13.0	15.0	252.8	
1986	1,016	914	12.0	12.0	12.0	13.0	24.0	34.0	35.0	36.0	20.0	15.0	12.0	14.0	239.0	
1987	991	902	13.9	11.7	12.5	20.4	24.5	32.2	38.1	36.6	29.5	20.2	*31.7	14.7		
1988	999	909			12.5	-		-	43.5	41.0	31.8	20.5	13.3	14.7		
1989	1,008	916	16.7	15.0	19.4	24.5	28.6	32.3		-	31.0	-				
1990	1,100	986	14.6	13.4	17.5	23.5	28.2	33.1	46.4	43.3	33.5	22.4	13.6	15.5	305.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.19	2,052	153	155	182	210	300	362	483	462	497	247	177	168	284	0.31
1981	2.20	2,099	177	192	175	197	318	507	504	501	504	249	195	178	309	0.34
1982	2.20	2,130	-	-	-	-	-	-	541	494	291	318	177	174	-	-
1983	2.20	2,162	203	192	187	302	303	416	613	345	362	194	205	236	297	0.33
1984	2.20	2,174	242	251	249	173	407	440	553	481	353	197	189	205	313	0.35
1985	2.21	2,186	223	266	257	218	412	454	605	398	351	192	198	221	317	0.35
1986	2.21	2,247	172	191	172	193	345	504	503	517	297	215	178	201	291	0.32
1987	2.21	2,195	204	190	184	310	360	489	560	538	448	297	-	216	-	-
1988	2.22	2,215	-	-	-	-	-	-	633	597	478	298	200	214	-	-
1989	2.22	2,239	241	239	280	365	412	481	-	-	-	-		-	-	-
1990	2.22	2,447	193	196	231	320	372	451	612	571	456	295	185	204	342	0.383
AVERAGE			201	208	213	254	359	456	561	490	404	250	189	202	308	0.344
VERAGE			201	208	213	254	359	456	561	490	404	250	189	202	308	0.344

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data unavailable

^{*} System Maintenance-Major tank cleaning

	EL DORADO				GENCY			•			(ORIGIN C	OF WATER	(in pe	ercent):	
	PLACERVIL			TYPE OF	AGENCY.	M	UNICIPA	L WATER	DEPART	MENT						
					_								E WATER		100	
					ER	SYSTEM	SERVES	S:				WELLS	AND SPE	INGS	0	
		#														
AU #		• • • • • • • • • • • • • • • • • • • •	158		-	RE CITY										
						RE CITY					:	SOURCE (OF WATER	(in pe	ercent):	
ITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ		Х						
		•			OTHE	R	• • • • • •		• • • • • • •			PURCHA	ASED	• • • • • •	100	
1990	• • • • • • • • •	8,355										SELF S	SUPPLIED		0	
					SERVICE	CONNECT		/1								
ESIDENT	IAL:		1	COMMERC			1	INDUSTRI				GOVERNME				
Metere	d	2,118		Meter	ed	315		Metere	d	NA		Hetere	ed	NA		
Flat R	ate	0		Flat I	Rate	0		Flat F	ate	NA		Flat F	late	NA		
					_											
YEAR		SERVICE			1	OTAL WA	TER IN	O SYSTE	M (MILL	LION GAL	LONS)					
OF		TIONS /2	1011		***	400	MA24			4110	055	-00-	1100	950	********	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,024	2,022	20.0	19.0	19.0	20.0	28.0	37.0	43.0	46.0	35.0	28.0	21.0	19.0	335.0	
1981	2,029	2,026	18.0	16.0	18.0	22.0	30.0	44.0	50.0	38.0	34.0	20.0	18.0	18.0	326.0	
1982	2,032	2,029	20.0	16.0	17.0	20.0	32.0	37.0	42.0	43.0	28.0	20.0	18.0	19.0	312.0	
1983	2,036	2,033	18.0	17.0	18.0	18.0	26.0	38.0	42.0	42.0	34.0	27.0	17.0	24.0	321.0	
1984	2,039	2,036	20.0	18.0	22.0	22.0	35.0	40.0	53.0	49.0	41.0	26.0	21.0	24.0	371.0	
1985	2,074	2,071	21.0	22.0	22.0	28.0	39.0	45.0	51.0	47.0	31.0	28.0	22.0	21.0	377.0	
1986	2,094	2,091	19.0	18.0	20.0	21.0	28.0	39.0	45.0	44.0	30.0	25.0	22.0	29.0	340.0	
1987	2,121	2,118	19.0	17.0	19.0	27.0	34.0	40.0	43.0	43.0	35.0	30.0	21.0	21.0	349.0	
1988	2,159	2,156	21.0	22.0	24.0	21.0	24.0	29.0	34.0	33.0	30.0	26.0	18.0	18.0	300.0	
1989	2,266	2,261	18.0	18.0	18.0	20.0	28.0	33.0	42.0	40.0	30.0	24.0	21.0	21.0	313.0	
1990	2,388	2,383	20.0	18.0	20.0	21.0	27.0	32.0	42.0	41.0	35.0	29.0	22.0	23.0	330.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAP	TA WATE	R USE	(gpcd)/3	3			-	WNUALLY	
OF	CONNEC-	TION										•			gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.33	6,746	96	97	91	99	134	183	206	220	173	134	104	91	136	0,1
1981	3.35	6,797	85	84	85	108	142	216	237	180	167	95	88	85	131	0.1
1982	3.37	6,843	94	84	80	97	151	180	198	203	136	94	88	90	125	0.1
1983	3.38	6,891	84	88	84	87	122	184	197	197	164	126	82	112	128	0.1
1984	3.40	6,937	93	89	102	106	163	192	246	228	197	121	101	112	147	0.1
1985	3.42	7,092	96	111	100	132	177	212	232	214	146	127	103	96	146	0.1
1986	3.44	7,197	85	89	90	97	126	181	202	197	139	112	102	130	129	0.1
1987	3.45	7,326	84	83	84	123	150	182	189	189	159	132	96	92	131	0.1
1988	3.47	7,495	90	101	103	93	103	129	146	142	133	112	80	77	110	0.1
1989	3.49	7,906	73	81	73	84	114	139	171	163	126	98	89	86	108	0.1
1990	3.51	8,373	77	77	77	84	104	127	162	158	139	112	88	89	108	0.1
.,,,	3.51	0,515	•••		••	-							-	•		
VERAGE			87	90	88	101	135	175	199	190	153	115	93	96	127	0.1

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY.				WATER A								ORIGIN	OF WATE	R (in p	ercent):	
CITY	OROVILLE			TYPE OF	AGENCY		WATER D	ISTRICT	S AND C	OMPANY	/5					
SYSTEM #	ŧ		4009									SURFA	CE WATE	R	95	
HYDROLOG	GIC REGION	l	SACRAME	NTO RIV	ÆR .	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	5	
PLANNING	SUBAREA	#	CENTRAL	BASIN	EAST/SE											
DAU #			159,168	170	ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
INSIDE C	ITY POPUL	ATION			POR	TION OF	THE CI	TY								
1980		7,400			OTH	ER				X		PURCH	ASED		28	
1990		10,101										SELF	SUPPL IE	D	72	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	9,059		Meter	ed	988		Meter	ed	17		Meter	ed	132		
Flat R	tate	955		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,209	2,207	118.0	90.7	107.3	163.5	199.2	231.0	298.6	324.3	255.2	190.6	119.6	94.3	2192.3	
1981	10,571	2,857	247.3	243.3	265.9	313.6	453.2	714.8	736.1	740.7	569.8	276.2	238.9	199.8	4999.6	
1982	10,647	2,878	193.5	164.7	181.6	197.4	487.9	496.9	587.7	634.5	437.9	253.1	162.6	146.8	3944.6	
1983	10,688	2,885	154.5	133.3	159.5	162.6	321.0	502.5	539.4	572.1	471.0	264.8	149.7	142.5	3572.9	
1984	10,629	2,894	145.2	129.4	160.1	199.2	458.5	517.1	664.0	614.7	477.0	214.3	137.5	133.5	3850.5	
1985	10,601		142.4	138.7	147.8			556.5							3912.6	
1986	10,610	2,935	141.5	128.6	158.2		399.3		632.7				207.7	168.1	3882.0	
1987	10,825	2,955	160.9	143.6	208.4	346.5	509.0		577.8				159.1	154.9	4185.2	
1988	10,836	2,979	148.4	153.9	214.0	250.2	312.9	430.8	572.7	577.9	485.3	332.9	174.7	167.8	3821.5	
1989	11,088	3,006	163.7	153.1	150.0			440.5	556.6	543.5	378.8	232.0	180.2	162.5	3559.9	
1990	11,125	3,065	158.2	143.1	181.8	270.6	331.6	350.7	550.5	561.0	442.7	348.3	218.2	220.6	3777.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA HAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1000	7 7r	19.0/0	244	173	192	302	356	/27	F7/	580	471	341	221	169	777	0.77
1980	3.35	18,048	211					427	534				239	194	333	0.373
1981 1982	3.35	33,275	240	261	258	314 197	439	716 495	714 567	718	571 436	268 244		142	412 323	0.461
1982	3.34	33,456	187	176	175 153	161	470 308	498	518	612 549	436	254	162	137	323 291	
	3.34	33,609	148	142									148			0.326
1984	3.33	33,477	140	133	154	198	442	515	640	592	475	206	137	129	315	0.353
1985	3.32	33,451	137	148	143	273	418	555	626	575	355	268	183	151	320	0.359
1986	3.32	33,549	136	137	152	201	384	546	608	623	383	250	206	162	317	0.355
1987	3.31	34,210	152	150	197	338	480	541	545	565	441	299	155	146	335	0.375
1988	3.31	34,275	140	155	201	243	294	419	539	544	472	313	170	158	305	0.342
1989	3.30	35,025	151	156	138	206	353	419	513	501	361	214	171	150	278	0.312
1990	3.30	35,175	145	145	167	256	304	332	505	514	420	319	207	202	294	0.330
AVERAGE			162	161	175	244	386	497	573	579	441	271	182	158	320	0.359

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{5/} Agencies combined are: City of Oroville, Oroville Wyandotte and Thermalito ID (after 1980)

	PLACER							IRRIGATI		TRICT		ORIGIN (OF WATER	(in p	ercent):	
	NORTH AUE			TYPE OF	AGENCY.		PUBLIC	WATER AC	ENCY							
													E WATER		100	
					ER	SYSTE	1 SERVE	S:				WELLS	AND SPI	RINGS	0	
		#		ST												
DAU #		• • • • • • • • •	161					•••••								
								OUTSIDE.			1	SOURCE (OF WATER	(in p	ercent):	
	ISUS POPUL							ΤΥ								
	•••••	•			OTHE	:R	•••••	•••••	•••••	Х			ASED		0	
1990		4,630			SERVICE	COMME	1000	/4				SELF S	SUPPL IEI		100	
RESIDENT	77.41.0			COMMERC		CONNEC		/ I Industri					WEAL .			
	d	1,592			ed	149			d	4		GOVERNME				
					Rate	0			ate	0			ed	NA		
rtat k	Rate			rtat	Kate	v		rtat	ate	U		rtat i	Rate	NA		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER IN	TO SYSTE	M (MILI	LION GAI	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	,
1980	1,500	1,500	/5	-	-	-	-	-	-	•	-	-	-	-	-	
1981			-	-	-	-	•	-	-	-	-	-	-	-	-	
1982			-	-	•	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984			-	-	-	-	-	-	-	-	-	-	-		-	
1985			-	-	-	-	-	-	-	-	-	-	-	-	-	
1986			-	-	-	-	-	-	-	-	-	-	-	-	-	
1987			-	-		-	-	-	-	-	-	-	-	-	-	
1988	1,745	1,745	20.8	23.0	30.8	30.2	33.5	44.4	62.5	58.5	51.2	52.2	25.3	20.8	453.3	
1989	1,777	1,777	20.6	18.3	21.1	27.7	46.6	53.4	63.4	55.8	42.1	29.9	25.9	22.7	427.6	
1990	1,780	1,780	24.9	23.2	27.2	34.8	41.5	47.6	62.4	59.8	44.6	46.7	30.6	26.9	470.2	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	ITA WATE	R USE	(gpcd)/3	3			-	ANNUALLY	
OF	CONNEC-	TION										•			gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.00	3,000				_	-		_	_	-	-	-	-		-
1981	2.06	-,		-		-	_	-	-	-	-		-		-	-
1982	2.12		-		-	-	-	-	-	-	-	-			-	-
1983	2.18			-		-		-	-	-	-	-	-	-		
1984	2.24					-	-	-	-		-		-	-	-	-
1985	2.30				-		-	-	-		-		-	-	-	-
1986	2.36						-	-								-
1987	2.42							-	-	-	-			-	-	-
1988	2.48	4,329	155	183	229	233	250	342	466	436	394	389	195	155	287	0.321
1989	2.54	4,515	147	145	151	205	333	394	453	398	311	214	191	162	259	0.291
1990	2.60	4,630	173	179	190	251	289	343	435	417	321	325	220	187	278	0.312
AVERAGE			159	169	190	229	291	360	451	417	342	309	202	168	275	0.308

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

^{5/} Missing data unavailable.

		#					M SERVE						AND SPI			
						IRE CIT	y									
<i>y</i>		•••••	102							х		SUIBLE	OF WATER	(in n	ercent):	
TITY CEN	SUS POPUL	ATTON								^		OODINGE	0. 10.112.	· (111 p	ci cairey.	
												DIEDCH	ASED		0	
					Olli	CR							SUPPLIE		100	
1990	• • • • • • • • •	40,209			SERVICE	CONNEC	TIONS	/1				SELF	SOFFLIE		100	
RESIDENT	141 .			COMMERC		COMMEC		INDUSTR	TAL .			GOVERNM	ENTAL .			
		10 201			ed	374			ed	17			ed	22		
	d				Rate	46			Rate	17			Rate	41		
rtat R	ate	9,230		rtat	Kale	40		rtat	Kale	'		reat	Rate	91		
YEAR	ACTIVE	CEDVICE				TOTAL II	ATED IN	TO EVET	EM (MIL	1 10W CA	LLOWEN					
OF		TIONS /2				IOIAL W	MIEK IN	10 3131	CH (HIL	LION GA	LLUNS					
	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
RECORD	313168		JAN		FIRM	AFR		JUN	JUL	AUG	3CP			DEC	MINONE	
1980	9,269	8,944	122.0	119.0	143.0	206.0	292.0	349.0	378.0	369.0	286.0	256.0	188.0	137.0	2845.0	
1981	9,444	9,120	133.0	125.0	142.0	224.0	343.0	446.0	445.0	399.0	326.0	216.0	143.0	125.0	3067.0	
1982	9,794	9,295	132.0	120.0	128.0	166.0	360.0	371.0	400.0	397.0	271.0	230.0	142.0	128.0	2845.0	
1983	9,794	9,470	135.0	118.0	128.0	170.0	282.0	395.0	438.0	422.0	361.0	253.0	147.0	134.0	2983.0	
1984	9,969	9,645	139.0	139.0	208.0	274.0	403.0	434.0	494.0	450.0	403.0	248.0	165.0	143.0	3500.0	
1985	10,144	9,820	156.0	169.0	190.0	286.0	384.0	472.0	491.0	435.0	339.0	305.0	216.0	149.0	3592.0	
1986	10,319	9,995	150.0	135.0	168.0	268.0	399.0	468.0	498.0	469.0	345.0	301.0	261.0	173.0	3635.0	
1987	10,494	10,170	174.0	158.0	196.0	324.0	445.0	474.0	490.0	474.0	396.0	316.0	177.0	157.0	3781.0	
1988	10,669	10,345	156.0	196.0	271.0	297.0	342.0	401.0	476.0	470.0	411.0	329.0	205.0	177.0	3731.0	
1989	10,844	10,520	171.0	177.0	177.0	274.0	400.0	443.0	506.0	441.0	340.0	257.0	220.0	181.0	3587.0	
1990	11,019	10,695	170.0	149.0	210.0	307.0	357.0	388.0	458.0	450.0	353.0	376.0	246.0	206.0	3670.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apped)/	3				ANNUALLY	
OF	CONNEC-	TION								(20),	_				gpcd	afp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.10	37,971	104	108	121	181	248	306	321	313	251	217	165	116	205	0.2
1981	4.12	38,900	110	115	118	192	284	382	369	331	279	179	123	104	216	0.24
1982	4.14	40,561	105	106	102	136	286	305	318	316	223	183	117	102	192	0.21
1983	4.16	40,780	107	103	101	139	223	323	346	334	295	200	120	106	200	0.22
1984	4.19	41,732	107	115	161	219	312	347	382	348	322	192	132	111	230	0.25
1985	4.21	42,692	118	141	144	223	290	369	371	329	265	230	169	113	231	0.25
1986	4.23	43,660	111	110	124	205	295	357	368	347	263	222	199	128	228	0.2
1987	4.25	44,635	126	126	142	242	322	354	354	343	296	228	132	113	232	0.2
1988	4.28	45,619	110	148	192	217	242	293	337	332	300	233	150	125	224	0.25
1989	4.30	46,610	118	136	122	196	277	317	350	305	243	178	157	125	211	0.2
1990	4.32	47,609	115	112	142	215	242	272	310	305	247	255	172	140	211	0.2
AVERAGE			112	120	134	197	275	329	348	327	271	211	149	117	216	0.24
44.00	ber of se											ta dail				

WATER AGENCY......DAVIS, CITY OF

CITY...DAVIS/EL MACERO TYPE OF AGENCY......MUNICIPAL MATER DEPARTMENT

ORIGIN OF WATER (in percent):

COUNTY.. YOLO

fire protection, and other agencies.

COUNTY	YOLO			WATER A	GENCY	• • • • • •	HOODLAN	D, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	WOODLAND			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	f		57006									SURFA	CE WATE	R	0	
HYDROLOG	IC REGION		SACRAME	NTO RIV	ER.	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	CENTRAL	BASIN	WEST											
DAU #			162		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		x		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	η								
1980		30,235			OTH	ER						PURCH	ASED		0	
1990		39,802										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	0		Heter	ed	551		Heter	ed	29		Heter	ed	27		
	ate			Flat	Rate	146			Rate				Rate			
		7								·				-		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EN (NIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	8,744	8,721	150.0	141.0	139.0	155.0	225.0	320.0	385.0	445.0	413.0	338.0	243.0	207.0	3161.0	
1981	8,621	8,602	126.0	137.0	143.0	156.0	261.0	381.0	493.0	507.0	477.0	361.0	193.0	149.0	3384.0	
1982	8,657	8,638	145.0	157.0	157.0	192.0	398.0	411.0	460.0	414.0	283.0	238.0	143.0	141.0	3139.0	
1983	8,852	8,832	151.0	124.0	146.0	177.0	311.0	434.0	602.0	497.0	384.0	264.0	150.0	143.0	3383.0	
1984	8,888	8,869	146.0	139.0	209.0	275.0	414.0	423.0	492.0	459.0	384.0	242.0	174.0	143.0	3500.0	
1985	9,012	9,007	155.0	175.0	199.0		412.0			467.0			196.0	142.0	3736.0	
1986	9,225	9,225	175.0		192.0		440.0			540.0	350.0	296.0		237.0	4022.0	
1987	9,617	9,617	188.0	175.0	222.0	370.0	524.0	557.0	558.0	563.0	479.0	337.0	194.0	169.0	4336.0	
1988	10.370	10,370	197.0	219.0	332.0				575.0						4129.0	
1989	10,608	10,603	179.0		178.0							269.0	230.0		4010.0	
1990	10,935				235.0	-										
MEAD	PERSONS	AVERAGE					DED 040			6 mm = al > 6	7				ALBERTALLY	
YEAR	PER	POPULA-					PER CAP	IIA WAI	ER USE	(gpca)/	3	-			ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.47	30,315	160	160	148	170	239	352	410	474	454	360	267	220	286	0.320
1981	3.48	30,038	135	163	154	173	280	423	529	544	529	388	214	160	309	0.346
1982	3.50	30,314	154	185	167	211	424	452	490	441	311	253	157	150	284	0.318
1983	3.52	31,150	156	142	151	189	322	464	623	515	411	273	161	148	298	0.333
1984	3.54	*	150	152	214	292	425	449	505	471	407	248	185	147	305	0.333
1985	3.55	31,431 32,026	156	195	200	317	415	522	545	470	356	302	204	143	320	0.358
	3.57		171	155	188	294	431	520	544	529	354	290	291	232	334	0.375
1986		32,943	171	181	208	357	431 490	538	522	526	463	315	187	158	344	0.386
1987	3.59	34,510		202			300	380	496	428		297	193	180	303	0.339
1988	3.61	37,392	170		286	272					411		***			
1989	3.62	38,435	150	159	149	258	410	434	494	440	326	226	199	175	286	0.320
1990	3.64	39,809	160	165	190	236	295	298	459	437	368	485	244	193	295	0.331
AVERAGE			158	169	187	252	366	439	511	479	399	312	209	173	306	0.342

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	ARBUCKLE							LE PUBLIC				ORIGIN (, in pe	ourcy:	
				TIPE OF	MULHUI		OBLIC	MAICK DI	SIRICI			CLIDEAG	E WATER		0	
-				NTO RIV	FD	SYSTE	SERVE						AND SPE		100	
		#				0.0.0	· OLKI					MLLLS	AND SER	INGS	100	
			163	Onorn .		RE CITY										
	•••••							CUTSIDE.		х		SOURCE (E MATER	(in n	ccent).	
CITY CEN	ISUS POPUL	ATTON						TY				oomut. (, marien	CIII pe	icait).	
												DI IDCH	SED		0	
		*											SUPPLIED		100	
		.,			SERVICE	CONNECT	TIONS	/1				022.			100	
RESIDENT	TAL:			COMMERC				INDUSTRI	AL:			GOVERNME	NTAL:			
	d	5			ed	17			d	0			ed	2		
	ate				Rate	81			ate	0			late	0		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.12				٥.				•				•		
YEAR	ACTIVE	SERVICE			1	TOTAL W	TER I	TO SYSTE	M CMILI	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	620	612	5.1	4.7	5.7	11.4	18.7	19.8	27.9	22.9	19.8	15.3	9.3	5.6	166.2	
1981	631	624	4.9	5.3	/5	8.0	18.7	27.1	28.0	25.4	18.8	10.0	7.2	6.2	-	
1982	666	658	5.8	5.3	6.0	8.7	20.8	25.4	26.6	27.0	18.3	14.3	-	-	-	
1983	727	720	9.6	5.5	7.0	8.6	18.4	27.7	29.1	30.5	23.8	14.4	8.9	7.0	190.5	
1984	727	720	5.8	7.4	11.2	12.2	34.1	31.7	37.9	32.0	24.3	15.3	8.3	5.9	226.0	
1985	729	722	6.7	7.7	8.6	18.6	27.1	32.7	38.7	31.2	23.4	13.0	9.8	7.4	224.8	
1986	745	737	7.7	6.4	7.8	18.8	26.2	32.1	36.6	31.2	23.1	17.5	12.8	8.9	229.2	
1987	745	737	10.4	7.4	10.5	21.3	28.4	36.7	33.8	33.3	28.2	20.8	7.8	9.2	247.8	
1988	748	742	6.9	9.9	15.6	17.3	20.9	23.5	33.1	37.1	28.8	23.6	13.7	9.3	239.6	
1989	745	737	3.4	7.4	8.4	16.4	30.6	27.7	34.1	37.0	22.1	17.0	12.7	9.4	226.1	
1990	747	739	9.2	9.4	10.5	21.3	30.2	28.4	34.3	38.7	30.0	27.6	15.0	12.3	266.9	
WEAD	PERSONS	AVERAGE					DED 040		- LIOF		,				NNUALLY	
YEAR	CONNEC-	POPULA- TION				,	PER LA	PITA WATE	ER USE	(gpca)/3	,					afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	/4
KELUKU		SERVED	JAN	FEB	PIAK	APK	PAT		JUL	AUG	SEP	001	NOV		/3	/4
1980	2,13	1,323	124	123	139	288	456	498	679	559	500	373	235	137	344	0.386
1981	2.18	1,375	115	137	137	194	439	658	656	595	457	233	176	146	-	0.300
1982	2.22	1,482	126	128	131	196	453	571	580	587	411	311	170	140		
1983	2.27	1,650	188	119	137	174	360	560	569	596	481	281	179	137	316	0.354
1984	2.32	1,683	111	151	215	242	653	627	727	614	481	293	164	113	368	0.412
1985	2.36	1,721	125	160	161	359	509	634	726	585	453	244	189	138	358	0.401
1986	2.41	1,792	139	128	140	349	472	596	659	561	430	316	239	160	350	0.392
1987	2.45	1,826	183	145	185	389	502	670	597	588	514	367	142	162	372	0.416
	2.50	1,867	120	183	269	308	361	419	571	641	514	408	245	160	352	0.394
1000		.,001	120	100	207	500	301	417	-11		2.7	700				0.074
1988 1989	2.54	1,894	58	139	142	289	521	488	581	631	389	290	224	160	327	0.366

^{1/} Number of services

AVERAGE

629

468

325

205 152 352 0.394

131 144 169 287 476 565

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data is unavailable

⁶⁰⁰ 3/ gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	GLENN			WATER A	GENCY		CALIFO	RNIA WATE	R SERVI	CE COMP	PANY	ORIGIN (OF WATER	(in p	ercent):	
CITY	WILLOWS			TYPE OF	AGENCY		INVEST	OR OWNED								
SYSTEM #			11003									SURFA	E WATER	2	0	
HYDROLOG	IC REGION	l	SACRAME	NTO RIV	ER	SYSTE	4 SERV	ES:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	CENTRAL	BASIN I	WEST											
DAU #			163		ENT	IRE CIT	۲	• • • • • • • •								
					ENT	IRE CIT	PLUS	CUTSIDE.		X		SOURCE (OF WATER	(in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE C	ITY								
1980		4,777			OTH	ER		• • • • • • •				PURCH	ASED		0	
1990		5,988										SELF S	SUPPL IEI		100	
					SERVICE	CONNEC	FIONS	/1								
RESIDENT	IAL:			COMMERC				INDUSTRI				GOVERNME	ENTAL:			
Metere	d				ed			Metere	ed	NA		Meter	ed	39		
Flat R	ate	1,064		Flat	Rate	0		Flat F	late	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER I	NTO SYSTE	M (MILL	ION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,008	1,357	20.9	19.7	26.0	41.1	56.9	58.1	83.0	75.0	61.4	48.6	33.5	22.1	546.3	
1981	2,031		21.0	19.4	24.0	42.6	59.8	87.9	87.1	79.5	57.3	28.8	23.2	19.6	550.2	
1982	2,027		16.6	14.7	15.6	22.9	59.1	64.0	76.4	70.2	46.8	38.1	21.7	21.8	467.9	
1983	2,047		20.9	18.4	21.1	24.6	49.7	71.1	82.2	71.5	57.8	40.2	21.9	21.3	500.7	
1984	2,071		21.8	21.6	32.7	48.5	73.3	81.8	91.9	79.0	64.9	36.8	24.7	23.2	600.2	
1985	2,086		23.2	26.5	28.1	48.0	65.2	88.3	88.1	76.9	48.5	46.4	30.0	20.1	589.3	
1986	2,088		19.2	21.6	26.9	42.6	65.1	73.8	84.1	79.9	51.2	46.4	32.8	21.7	565.3	
1987	2,093		21.5	20.1	20.6	50.5	69.6	75.9	79.4	78.0	60.6	47.4	25.5	24.1	573.2	
1988	2,093		23.5	27.9	42.7	41.9	51.5	67.6	87.2	73.8	64.8	49.3	27.0	23.7	580.9	
1989	2,122		25.7	25.4	25.6	44.2	66.9		79.2	74.6	46.9	31.6	28.0	27.6	544.4	
1990	2,122	1,701	25.0	23.3	34.0	48.7	53.9	66.1	83.0	73.8	62.5	54.9	33.9	32.0	591.1	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CA	PITA WATE	R USE ((gpcd)/3	3				ANNUALLY	
OF	CONNEC-	TION										•			gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.52	7,069	95	96	119	194	260	274	379	342	290	222	158	101	212	0.237
1981	3.52	7,150	95	97	108	199	270	410	393	359	267	130	108	88	211	0.236
1982	3.52	7,136	75	74	71	107	267	299	345	317	219	172	101	99	180	0.201
1983	3.52	7,206	94	91	94	114	222	329	368	320	267	180	101	95	190	0.213
1984	3.52	7,290	96	102	145	222	324	374	407	350	297	163	113	103	226	0.253
1985	3.52	7,343	102	129	123	218	286	401	387	338	220	204	136	88	220	0.246
1986	3.52	7,350	84	105	118	193	286	335	369	351	232	204	149	95	211	0.236
1987	3.52	7,368	94	97	90	228	305	343	348	341	274	208	115	106	213	0.239
1988	3.52	7,368	103	131	187	190	225		382	323	293	216	122	104	216	0.242
1989	3.52	7,470	111	121	111	197	289	307	342	322	209	136	125	119	200	0.224
1990	3.52	7,470	108	111	147	217	233	295	358	319	279	237	151	138	217	0.243

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	COLUSA			ATER A	GENCY		ILLIAMS	, CITY	OF			ORIGIN C	OF WATER	(in pe	rcent):	
CITY	WILLIAMS		1	TYPE OF	AGENCY.		UNICIP/	L WATER	DEPART	MENT						
SYSTEM #			6004									SURFAC	E WATER		0	
		9		TO RIVE	ER	SYSTE	SERVES	:				WELLS	AND SPR	INGS	100	
		#														
DAU #			163		ENT	RE CITY	·									
								UTSIDE.		х		SOURCE (OF WATER	(in pe	rcent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
												PURCHA	SED		0	
	•••••	-											SUPPLIED		100	
		•			SERVICE	CONNECT	TIONS /	/1								
RESIDENT	IAL:			COMMERC	IAL:		1	MDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	d	581		Meter	ed	99		Metere	d	0		Metero	ed	0		
	ate			Flat I	Rate	20		Flat R	ata	0		Flat F	Rate	1		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER IN	O SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
4000			·													
1980	617	597	/5	-	-	-			21.0	19.0	15.0	9.0	7.0	7.C	:	
1981 1982	630 645	610 620	6.0	6.0	7.0	9.0	16.0	14.0	15.0	19.0	9.0	9.0	7.0 7.0	7.0	123.0	
										18.0	9.0	9.0	7.0			
1983	650 664	624 631	7.0 7.0	6.0 6.0	7.0 7.0	9.0 9.0	12.0	18.0 18.0	17.0 19.0	20.0	19.0	11.0	7.0 8.0	7.0 8.0	126.0 146.0	
1984			8.0	8.0			22.0	18.0	19.0	20.0	19.0	11.0	8.0	8.0	161.0	
1985	684	650	7.7	7.0	8.0 7.9	12.0 10.7	17.8	20.3	20.0	19.0	12.4	10.3	9.1	7.9	150.1	
1986 1987	667	657 658	7.6	7.0	8.1	14.7	19.8	20.8	19.5	19.4	15.3	12.6	8.5	8.6	161.8	
1988	675 705	689	8.8	8.0	13.5	10.8	14.6	15.9	19.5	16.1	13.7	11.4	8.4	7.5	148.0	
1989	679	659	8.5	7.2	7.1	10.8	16.3	17.4	20.3	18.2	12.2	10.5	9.4	8.5	146.5	
1990	711	691	7.7	7.3	9.6	14.1	14.3	17.6	22.0	17.0	13.9	12.4	10.1	9.6	155.6	
	DEBENNE	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USE	(apped) /3	\$				UNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.77	1,710		-	-	-	-	-	-		-	-	-	-	-	-
1981	2.83	1,781		-	-	-	-	-	380	344	281	163	131	127	-	-
1982	2.88	1,859	104	115	121	161	278	251	260	312	161	156	125	121	181	0.20
1983	2.94	1,910	118	112	118	157	203	314	287	304	157	152	122	118	181	0.20
1984	2.99	1,987	114	104	114	151	227	302	308	325	319	179	134	130	201	0.22
1985	3.05	2,085	124	137	124	192	340	288	294	309	304	170	128	124	212	0.23
1986	3.10	2,070	120	121	123	172	277	327	312	296	200	161	147	123	199	0.22
1987	3.16	2,132	115	117	123	230	300	325	295	293	239	190	132	130	208	0.23
1988	3.21	2,266	125	121	193	158	207	234	276	230	201	162	124	106	179	0.200
1989	3.27	2,220	123	116	103	163	237	262	295	264	183	152	142	124	181	0.20
1990	3.32	2,363	105	110	130	199	195	248	301	233	196	169	142	131	180	0.202
AVERAGE			117	117	128	176	252	283	301	291	224	165	133	123	191	0.214

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data is unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY					GENCY					TMENT		ORIGIN	OF WATE	(in pe	ercent):	
				TIPE OF	MULNUT.		TONICIP	AL MATER	DEPAR	INCHI		SLIREAL	CE WATER		0	
				NTO RIV	ER	SYSTE	SERVE	S:					AND SPI		100	1
		#						•					, and an		100	
DAU #			164		ENTI	RE CIT										
								OUTSIDE.		х		SOURCE	OF WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION						η								
1980		4,075										PURCH	ASED		0	
1990		4,934											SUPPL IEI		100	
					SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	AL:			GOVERNM	ENTAL:			
Metere	d	1,652		Meter	ed	143		Meter	d	1		Meter	ed	19		
Flat R	ate	39		Flat	Rate	0		Flat I	Rate	0		Flat	Rate	13		
YEAR	ACTIVE	SERVICE			1	OTAL W	TER IN	TO SYSTE	M CMTLI	TON GAI	LONS					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,574	1,419	20.0	20.1	25.1	30.6	48.5	52.5	64.1	62.6	43.5	35.7	25.2	21.5	449.4	
1981	1,552	1,396	21.7	21.8	24.6	29.3	57.1	67.3	71.1	65.6	51.2	26.8	24.5	23.3	484.3	
1982	1,530	1,374	21.9	18.2	20.1	23.1	48.4	56.4	61.5	59.1	50.8	58.9	23.4	22.0	463.8	
1983	1,598	1,436	22.5	20.8	22.1	24.0	42.8	55.1	66.0	63.7	50.7	30.3	19.2	21.5	438.7	
1984	1,665	1,497	21.6	20.1	26.8	38.2	62.7	70.2	77.8	72.4	54.9	32.6	24.7	23.1	525.1	
1985	1,733	1,559	23.6	16.0	40.1	49.6	62.1	81.5	86.1	72.0	43.3	40.0	25.6	24.0	563.9	
1986	1,741	1,577	23.0	20.1	24.2	38.3	66.9	70.8	79.4	77.4	47.0	39.0	31.8	22.3	540.2	
1987	1,789	1,623	22.8	20.9	24.6	45.9	70.2	78.7	79.1	81.6	60.9	45.8	26.8	21.5	578.8	
1988	1,823	1,655	25.0	26.2	34.9	39.2	52.2	68.3	85.9	78.5	64.9	47.6	25.6	23.6	571.9	
1989	1,857	1,687	19.5	24.3	21.9	37.3	59.6	66.5	74.2	72.1	47.3	30.2	27.4	24.8	505.1	
1990	1,854	1,684	24.8	22.4	31.5	46.7	55.0	62.3	82.0	72.2	55.9	48.1	30.8	27.5	559.2	
								·								
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	ER CAP	ITA WATE	ER USE	(gpcd)/:	3				WNUALLY	
OF	CONNEC-	TION										-			gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.87	4,520	143	153	179	226	346	387	457	447	321	255	186	153	272	0.305
1981	2.88	4,466	157	174	178	219	412	502	514	474	382	194	183	168	297	0.333
1982	2.88	4,412	160	147	147	175	354	426	450	432	384	431	177	161	288	0.323
1983	2.89	4,617	157	161	154	173	299	398	461	445	366	212	139	150	260	0.292
1984	2.90	4,820	145	144	179	264	420	485	521	485	380	218	171	155	298	0.334
1985	2.90	5,027	151	114	257	329	398	540	552	462	287	257	170	154	307	0.344
1986	2.91	5,060	147	142	154	252	426	466	506	493	310	249	209	142	292	0.328
1987	2.91	5,210	141	143	152	294	435	503	490	505	390	284	171	133	304	0.341
1988	2.92	5,320	152	170	212	246	317	428	521	476	407	289	160	143	295	0.330
	2.92	5,430	116	160	130	229	354	408	441	428	290	179	168	147	255	0.285
1989																0 744
1989 1990	2.93	5,432	147	147	187	287	327	382	487	429	343	286	189	163	282	0.316

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

COUNTY	BUTTE			ATER A	ENCY		IGGS, C	CITY OF				ORIGIN O	F WATER	(in pe	rcent):	
CITY	BIGGS		1	TYPE OF	AGENCY.		AUNICIP/	L WATER	DEPART	MENT						
SYSTEM #			4001									SURFAC	E WATER	· · · · · ·	0	
HYDROLOG	IC REGION	S	ACRAMEN	ITO RIVE	ER	SYSTE	SERVES	S:				WELLS	AND SPR	RINGS	100	
PLANNING	SUBAREA	#C	ENTRAL	BASIN E	EAST											
# UAC			168		ENTI	RE CITY	۲									
					ENTI	RE CITY	PLUS C	SUTSIDE.		X		SOURCE (F WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	η								
1980		1,413			OTHE	R						PURCH/	ASED		0	
1990		1,581										SELF S	SUPPLIED		100	
				:	SERVICE	CONNECT	TIONS /	/1								
RESIDENT	IAL:			COMMERC	IAL:		1	INDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	d	0		Meter	ed	0		Metere	d	0		Meter	ed	0		
Flat R	ate	560		Flat I	Rate	35		Flat F	Rate	1		Flat I	Rate	1		
YEAR		SERVICE			1	OTAL W	ATER IN	IO SYSTE	:M (MILI	LION GAL	LONS)					
OF		TIONS /2	1412	crn	MAR	ADD	MAY	m m.r	54 M	ALM	000	CCT	\$100.0	DEC	ANN 14 *	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	529	519	6.0	5.0	7.0	12.0	23.0	27.0	31.0	26.0	20.0	15.0	9.0	7.0	188.0	
1981	530	520	6.0	6.0	7.0	13.0	21.0	33.0	34.0	29.0	21.0	9.0	7.0	7.0	193.0	
1982	534	525	6.0	6.0	7.0	9.0	23.0	28.0	28.0	30.0	17.0	11.0	7.0	7.0	179.0	
1983	537	529	7.0	6.0	6.0	7.0	17.0	27.0	32.0	30.0	22.0	13.0	8.0	7.0	182.0	
1984	543	535	7.0	7.0	9.0	15.0	28.0	31.0	37.0	31.0	22.0	11.0	8.0	10.0	216.0	
1985	554	546	7.0	7.0	9.0	17.0	27.0	33.0	35.0	36.0	16.0	13.0	9.0	8.0	217.0	
1986	561	551	8.0	7.0	9.0	15.0	27.0	32.0	33.0	31.0	17.0	13.0	11.0	8.0	211.0	
1987	561	551	9.0	8.0	9.0	19.0	28.0	32.0	32.0	29.0	23.0	16.0	8.0	8.0	221.0	
1988	564	554	8.0	8.0	14.0	15.0	18.0	35.0	35.0	30.0	23.0	17.0	9.0	8.0	220.0	
1989	567	558	8.0	7.0	7.0	13.0	23.0	28.0	33.0	28.0	18.0	11.0	9.0	8.0	193.0	
1990	597	588	7.0	7.0	10.0	17.0	21.0	26.0	34.0	30.0	24.0	18.0	10.0	8.0	212.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	ER USE	(gpcd)/	3			-	WHUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.72	1,440	134	120	157	278	515	625	694	582	463	336	208	157	358	0.401
1981	2.72	1,441	134	149	157	301	470	763	761	649	486	201	162	157	367	0.411
1982	2.72	1,450	133	148	156	207	512	644	623	667	391	245	161	156	338	0.379
1983	2.71	1,457	155	147	133	160	376	618	709	664	503	288	183	155	342	0.383
1984	2.71	1,471	154	164	197	340	614	702	811	680	499	241	181	219	402	0.451
1985	2.71	1,499	151	167	194	378	581	734	753	775	356	280	200	172	397	0.444
1986	2.70	1,516	170	165	192	330	575	704	702	660	374	277	242	170	381	0.427
1987	2.70	1,514	192	189	192	418	597	704	682	618	506	341	176	170	400	0.448
1988	2.70	1,520	170	181	297	329	382	767	743	637	504	361	197	170	396	0.444
1989	2.69	1,526	169	164	148	284	486	611	697	592	393	232	197	169	346	0.388
1990	2.69	1,605	141	156	201	353	422	540	683	603	498	362	208	161	362	0.405
1770	2.07	1,003	141	150	201	555	764		533							
AVERAGE			155	159	184	307	503	674	714	648	452	288	192	169	372	0.416

^{1/} Number of services

Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	BUTTE		1	WATER A	GENCY		RIDLEY	, CITY C	F			ORIGIN C	OF WATER	(in pe	rcent):	
	GRIDLEY							AL WATER		MENT						
												SURFAC	E WATER		0	
				NTO RIV	ER	SYSTE	SERVE	S:				WELLS	AND SPR	INGS	100	
PLANNING	SUBAREA	#	CENTRAL	BASIN I	EAST											
DAU #			168		ENTI	RE CITY	·									
					ENTI	RE CITY	PLUS (OUTSIDE.		х	:	SOURCE C	F WATER	(in pe	rcent):	
CITY CEN	ISUS POPUL	MOITA			PORT	ION OF	THE CI	TY								
1980		3,982			OTHE	R						PURCHA	ASED		0	
1990		4,631										SELF S	SUPPLIED		100	
				:	SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	d	1,399		Meter	ed	199		Metere	ed	1		Metere	ed	48		
Flat R	ate	10		Flat	Rate	8		Flat R	ate	0		Flat F	Rate	0		
YEAR		SERVICE			1	OTAL W	ATER IN	TO SYSTE	M (MILI	ION GAL	LONS)					
OF		TIONS /2			****		****			****					******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,591	1,591	20.3	16.2	21.6	32.2	44.7	56.5	56.9	61.7	65.8	28.3	9.4	9.7	423.3	
1981	1,565	1,565	10.9	12.3	21.2	21.9	27.5	/5		30.5	27.8	21.4	20.7	11.6	-	
1982	1,575	1,560	20.2	18.1	18.7	24.2	57.9	47.9	71.2	57.3	39.3	29.6	19.3	17.6	421.3	
1983	1,637	1,622	20.4	17.2	19.3	19.2	35.8	59.7	67.9	64.3	47.7	32.2	18.6	18.6	420.9	
1984	1,640	1,628	19.1	19.0	24.7	32.7	65.0	64.3	61.7	58.2	48.0	26.5	18.5	18.0	455.7	
1985	1,648	1,636	18.0	18.8	20.3	37.0	56.7	69.9	73.1	62.2	36.5	34.1	23.3	20.9	470.8	
1986	1,638	1,626	20.0	18.0	21.8	33.9	55.5	72.4	75.5	71.9	44.1	36.9	31.6	22.9	504.5	
1987	1,642	1,630	22.9	21.0	23.9	45.7	61.1	73.4	72.6	71.3	55.2	41.4	22.4	21.5	532.4	
1988	1,650	1,640	21.8	25.6	38.2	38.6	45.0	61.9	77.9	68.7	57.7	42.8	25.7	23.2	527.1	
1989	1,654	1,644	22.6	21.3	22.1	35.0	51.0	66.9	79.1	72.3	45.6	33.5	21.2	22.6	493.2	
1990	1,665	1,655	21.9	20.0	27.0	41.9	46.4	57.4	74.1	68.1	52.2	42.5	26.8	26.6	504.9	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USE	(gpcd)/3	3			-	WHUALLY	
OF	CONNEC-	TION										~			gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.50	3,982	164	140	175	270	362	473	461	500	551	229	79	79	291	0.326
1981	2.53	3,963	89	111	173	184	224	-	-	248	234	174	174	94	-	
1982	2.56	4,035	161	160	149	200	463	396	569	458	325	237	159	141	286	0.320
1983	2.59	4,242	155	145	147	151	272	469	516	489	375	245	146	141	272	0.304
1984	2.62	4,298	143	152	185	254	488	499	463	437	372	199	143	135	290	0.325
1985	2.65	4,368	133	154	150	282	419	533	540	459	279	252	178	154	295	0.331
1986	2.68	4,390	147	146	160	257	408	550	555	528	335	271	240	168	315	0.353
1987	2.71	4,449	166	169	173	342	443	550	526	517	414	300	168	156	328	0.367
1988	2.74	4,520	156	195	273	285	321	457	556	490	426	305	190	166	320	0.358
1989	2.77	4,579	159	166	156	255	359	487	557	509	332	236	154	159	295	0.330
1990	2.80	4,659	152	153	187	300	321	411	513	472	373	294	192	184	297	0.333
AVERAGE			148	154	175	253	371	482	526	464	365	249	166	143	299	0.335

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily
4/ afpca - acre-feet per capita annually

^{5/} Missing data unavailable

COUNTY	SUTTER			HATER A	GENCY		YUBA CI	TY, CIT	Y OF			ORIGIN (OF WATER	(in p	ercent):	
CITY	YUBA CITY			TYPE OF	AGENCY.		MUNICIPA	AL WATE	DEPAR'	THENT						
SYSTEM #			51002									SURFA	CE WATE	2	100	
				NTO RIV	ER	SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	CENTRAL	BASIN	EAST											
						IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATER	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	TION DE	THE CI	ΤΥ								
												PURCH	ASED		0	
												SELF	SUPPLIE	D	100	
1,,,,,,,					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL -			COMMERC				INDUSTR	TAL :			GOVERNM	ENTAL:			
	d	2,438			ed	650			ed	2			ed	3		
	ate				Rate	206		Flat		0			Rate	0		
riatik	ate	3,320		1 (4)	Nate	200		1100		•			NGCC111	•		
YEAR		SERVICE				TOTAL W	MTER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
RECORD	SYSTEM	0111	JAN	LED	PAR	APK	mrti	JUN	JUL	7.00						
1980	5,256	5,256	86.0	78.0	88.0	138.0	211.0	291.0	274.0	252.0	200.0	156.0	113.0	86.0	1973.0	
1981	5,303	5,297	88.0	80.0			205.0						111.0		1956.0	
1982	5,350	5,338	90.0	82.0			198.0				190.0		108.0		1934.0	
1983	5,444	5,421	94.0	85.0			185.0				180.0		103.0		1891.0	
1984	5,500	5,469	96.0		125.0			278.0			223.0	157.0	96.0		2138.0	
1985	5,988	5,931	101.0	87.0	115.0				317.0		192.0	175.0	123.0		2259.0	
1986	5,059	5,059	112.0	105.0	133.0	165.0			368.0			206.0	177.0		2530.0	
1987	•	5,445	104.0	94.0		213.0			237.0			178.0	99.0		2336.0	
1988	5,492 5,559	5,512	123.0	138.0			233.0						147.0		2657.0	
1989	6,112	6,051	129.0		128.0								162.0		2553.0	
1990	7,083				181.0											
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	3.56	18,736	148	144	152	246	363	518	472	434	356	269	201	148	289	0.323
1981	3.60	19,095	149	150	152	227	346	492	468	432	340	258	194	150	281	0.314
1982	3.64	19,457	149	151	153	209	328	466	464	429	325	247	185	153	272	0.305
1983	3.67	19,996	152	- 152	153	177	298	422	460	429	300	229	172	156	259	0.290
1984	3.71	20,400	152	154	198	263	402	454	449	444	364	248	157	145	287	0.322
1985	3.75	22,426	145	139	165	276	374	461	456	410	285	252	183	155	276	0.309
1986	3.78	19,130	189	196	224	288	413	537	621	565	413	347	308	234	362	0.406
1987	3.82	20,965	160	160	178	339	439	491	365	492	409	274	157	191	305	0.342
1988	3.85	21,422	185	222	300	300	351	448	532	500	448	342	229	205	340	0.381
1989	3.89	23,773	175	180	174	259	350	429	491	442	337	254	227	204	294	0.330
1990	3.93	27,806	171	181	210	282	310	375	447	428	352	314	213	187	290	0.325
AVERAGE			161	166	187	260	361	463	475	455	357	276	202	175	296	0.331

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

CUTY	YUBA MARYSVILI	F		TYPE OF				R OLMED		ICE CON	PANY	ORIGIN (OF WATER	(in p	ercent):	
					- routing I			OHNED				CIDEA	CE WATE	,	100	
				NTO PIV	FD	SYSTE	M SERVE						AND SPI			
		#				0.0.0	II OLKYL					WLLLS	AND ST	(IMGS	U	
			171			IRE CIT	γ			x						
								OUTSIDE				SOLIBOR	DE MATEI	(in n	ercent):	
CITY CEN	SUS POPUL	ATION						ΤΥ				DODROL (· · · · · · ·	er carey.	
												DURCH	ASED		100	
					• • • • • • • • • • • • • • • • • • • •								SUPPLIE			
.,,,,,,		,			SERVICE	CONNEC	TIONS	/1				OLL!			•	
RESIDENT	IAL:			COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	370		Meter	ed	1,650		Meter	ed	4			ed	57		
	ate				Rate				Rate	0			Rate	37		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3.586	3.586	45.0	43.0	50.0	66.0	93.0	110.0	132.0	120.0	97.0	74.0	56.0	47.0	933.0	
1981	3,659	3,659	46.0	41.0	48.0	64.0	99.0	140.0		135.0	101.0	59.0	48.0	49.0	975.0	
1982	3,674	3,674	50.0	45.0	49.0	57.0	105.0	113.0	131.0	124.0	83.0	66.0	51.0	52.0	926.0	
1983	3.677	3,677	57.0	54.0	67.0	68.0	104.0	134.0			101.0	75.0	50.0	52.0	1039.0	
1984	3,694	3,694	51.0	48.0	58.0	72.0	120.0	130.0	149.0	136.0	109.0	65.0	51.0	49.0	1038.0	
1985	3,716	3,716	49.0	47.0	52.0	77.0		142.0			89.0	83.0	59.0		1050.0	
1986	3,748	3,748	57.0	51.0	64.0	78.0	116.0	139.0	152.0	150.0	98.0	85.0	66.0		1108.0	
1987	3,760	3,760	52.0	53.0	59.0	90.0	123.0	144.0	147.0	148.0	116.0	88.0	64.0		1145.0	
1988	3,744	3,744	57.0	59.0	74.0	71.0	84.0	120.0	154.0	141.0	116.0	89.0	58.0	55.0	1078.0	
1989	3,752	3,752	54.0	54.0	61.0	75.0	99.0	123.0	151.0	137.0	97.0	78.0	63.0	59.0	1051.0	
1990	4,799	4,799	59.0	54.0	61.0	85.0	97.0	117.0	145.0	139.0	115.0	95.0	66.0	67.0	1100.0	
	PERSONS	AVERAGE										·				
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.76	9,898	147	150	163	222	303	370	430	391	327	241	189	153	258	0.289
1981	2.74	10,029	148	146	154	213	318	465	466	434	336	190	160	158	266	0.298
1982	2.72	10,000	161	161	158	190	339	377	423	400	277	213	170	168	254	0.284
1983	2.70	9,937	185	194	217	228	338	449	480	419	339	243	168	169	286	0.321
1984	2.68	9,912	166	167	189	242	391	437	485	443	367	212	172	159	287	0.321
1985	2.66	9,900	160	170	169	259	365	478	492	430	300	270	199	186	291	0.325
1986	2.64	9,913	185	184	208	262	377	467	495	488	330	277	222	169	306	0.343
1987	2.63	9,873	170	192	193	304	402	486	480	484	392	288	216	199	318	0.356
1988	2.61	9,759	188	208	245	243	278	410	509	466	396	294	198	182	303	0.339
1989	2.59	9,707	179	199	203	258	329	422	502	455	333	259	216	196	297	0.332
1990	2.57	12,324	154	156	160	230	254	316	380	364	311	249	179	175	245	0.274
AVERAGE			168	175	187	241	336	425	467	434	337	249	190	174	283	0.317

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SACRAMENT	0		WATER A	GENCY		CITIZE	IS UTIL	TIES CO	MPANY		ORIGIN	OF WATE	R (in p	percent):	
CITY	SACRAMENT	0		TYPE OF	AGENCY	·	INVESTO	OWNED)							
SYSTEM #			34013									SURF/	ACE WATE	R	. 0	
HYDROLOG	IC REGION		SACRAME	NTO RIV	ER	SYSTE	M SERVE	S:				WELLS	S AND SE	RINGS	100	
PLANN ING	SUBAREA	#	CENTRAL	BASIN	EAST											
DAU #			172	173	ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	CUTSIDE				SOURCE	OF WATE	R (in r	percent):	
CITY CEN	SUS POPUL	ATION			POF	TION OF	THE CI	TY								
1980		110,000										PURC	ASED		. 0	
													SUPPLIE			
		·			SERV1 CE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC				INDUSTR	IAL:			GOVERNI	ENTAL:			
Metere	d	51,000			ed	687			ed	NA			ed	200		
	ate	•			Rate				Rate				Rate			
		•						,,,,,	Nucces .	THAT		1 (0)	Nacc			
YEAR	ACTIVE	SERVICE				TOTAL L	ATER IN	TO SYST	EM (HIL	LION G	ALLONS					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	32,230	32,230	467.0	466.0	514.0	498.0	723.0	1043.0	1230.0	1398.0	1400.0	1213.0	885.0	715.0	10552.0	
1981	33,155														11778.0	
1982	34,100	34,100														
1983	34,549	34,549													11146.0	
1984	35,490	34.590													12222.0	
1985	36,798		566.0												13333.0	
1986	40,095		712.0												13841.0	
1987	39,749	,													14822.0	
1988	41,106														14600.0	
1989	43,429	43,429														
1990	46,064	•													16055.0	
	PERSONS	AVERACE	-	 -												
YEAR	PER	POPULA-					DED CAR	TTA LIAT	ER USE	(anod)	73				ANNUALLY	
DF	CONNEC-	TION					PER UAP	IIA WA	ER USE	(gpcu)/	, ,				gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
	1100							JOH	OOL	AOG	JLF	001	HOV	DEC		
1980		110,000	137	146	151	151	212	316	361	410	424	356	268	210	263	0.29
1981		113,789	160	142	143	154	251	394	445	497	440	381	214	171	284	0.31
1982		117,683	154	153	149	133	175	337	368	376	407	299	208	140	242	0.27
1983		119,891	129	158	136	135	154	271	376	458	455	355	250	172	255	0.28
1984			127	155	153	160	212	352	348	482	398	394	277	174	270	0.30
1985		123,834	141	194	167	190	212	344	416	461	434	309	287	207	283	
1703		129,099														0.31
100/		141,431	162	169	149	155	208	336	406	418	420	331	247	210	268	0.30
1986	4 55	140,969	204	188	210 194	187	248	370	376	408	408	385	305	163	288	0.3
1987		444				238	251	269	349	381	376	371	287	199	273	0.30
1987 1988	3.57	146,565	177	171						700			4.00			
1987 1988 1989	3.57 3.58	155,676	169	173	150	214	309	376	414	390	344	220	199	169	261	0.29
1987 1988	3.57 3.58								414 382	390 377	344 356	220 310	199 227			0.29

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTYS	RACDAMENT	0		UATED A	CENCY		FAIR O	UKS WATE	D DICTO	ICT		OPICIN	OE LIATE	l (in n	ercent):	
		/ORANGEVA	LE	TYPE OF								OKIGIN	OF WATE	K (in p	ercent):	
SYSTEM #.		-			71021101		. 00210	W.1.E.K D				SIDEA	CE WATE		95	
HYDROLOGI				ENTO RIV	FR	SYSTE	M SERVE	s:					AND SP			
PLANNING													7.00			
DAU #						IRE CIT	Y			х						
.,								OUTSIDE		~		SOLDOF	DE MATE	e (in n	ercent):	
CITY CENS	SUS POPUL	ATION						ΤΥ				-				
1980		30,447			OTH	ER						PURCH	ASED		95	
													SUPPLIE			
		•			SERVICE	CONNEC	TIONS	/1								
RESIDENTI	AL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metered	ł	0		Meter	ed	841		Meter	ed	NA		Meter	ed	NA		
Flat Ra	te	14,388		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	26		
VEAD	ACTIVE	CEBVICE				TOTAL L	ATEO IL	TO CYCT	EM CMTI		11000					
YEAR OF	CONNEC	TIONS /2				IOIAL W	MICK IF	ITO SYST	en (MIL	LIUN GA	LLUNS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	11,417	11,417	/5													
1981	11,648		122.0	1/3 0	126.0	252 0	500.0	721.0			515.0	272.0	149 0	170 0	/E70 0	
1982	11,751	11,751	122.0	143.0	126.0	232.0	390.0	721.0	734.0	000.0	313.0	212.0	100.0	130.0	45/Y.U	
1983	11,818	11,818		_	_	_	_				_	_		_	-	
1984	11,551	11,551	105 1	133.3	260 1	200 4	542 8			854 7	E70 7	270 0	17/ 7	07.7	4901.2	
1985	11,681	11,681	131.0					752.5				443.0			5069.0	
1986	11,811	11,811	181.0					735.0								
1987	11,972	11,972						621.0						192.0		
1988	12,071	12.071	228.0					735.0							5286.5	
1989	12,242	12.242		208.0												
1990	12,641			225.0												
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpci
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.67	30,447	-					-								
1981	2.70	31,459	125	162	129	267	605	764	753	826	546	279	178	133	399	0.447
1982	2.73	32,136		-	-			-		-					-	
1983	2.77	32,721	-	-	-		-	-	-	-	-	-	-	-	-	-
1984	2.80	32,374	105	142	248	308	561	840	786	853	597	278	139	97	415	0.465
1985	2.84	33,135	128	197	174	390	575	757	773	636	506	431	259	189	419	0.469
1986	2.87	33,905	172	189	248	320	668	723	719	860	475	363	415	205	448	0.502
1987	2.90	34,774	235	205	191	350	460	595	631	780	712	385	216	178	413	0.462
1988	2.94	35,471	207	242	291	424	376	691	525	653	690	370	233	187	408	0.457
	2.97	36,390	209	204	193	311	449	602	582	638	532	272	232	223	371	0.416
1989	2.71															
1989 1990	3.01	38,005	154	211	259	320	383	459	610	544	525	372	266	169	357	0.400

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	PLACER				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	ROSEVILLE			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
		•••••										SURFA	CE WATE	R	100	
						SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	0	
		#		BASIN	EAST											
DAU #	•••••	• • • • • • • • •	172		ENT	IRE CIT	Υ	•••••	• • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE	• • • • • • •	X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	ΤΥ								
1980		24,347			ОТН	ER						PURCH	ASED		100	
1990		44,685										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	362		Meter	ed	1,626		Meter	ed	NA		Meter	ed	NA		
Flat R	ate	16,544		Flat	Rate	838		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	9,736	9,729	121.0	111.0	139.0	153.0	271.0	337.0	369.0	358.0	268.0	193.0	160.0	141.0	2621.0	
1981	10,236	10,229	129.0	102.0	118.0	163.0	231.0	352.0	371.0	356.0	220.0	139.0	91.0	87.0	2359.0	
1982	10,591	10,584	94.0	74.0	93.0	123.0	343.0	417.0	414.0	366.0	259.0	192.0	116.0	121.0	2612.0	
1983	10,861	10,854	114.0	96.0							353.0				2979.0	
1984	11,351	11.344	155.0	130.0	172.0	229.0	388.0	433.0	506.0	462.0	379.0	220.0	142.0	144.0	3360.0	
1985	11,742	11,735	139.0	131.0	145.0	257.0	391.0	486.0	497.0	446.0	311.0	284.0	171.0	139.0	3397.0	
1986	12,764	12.764	139.0	128.0			449.0		570.0		353.0		250.0	164.0	3802.0	
1987	13,786		178.0	150.0							432.0			160.0		
1988	14,539	14,535	156.0	196.0				446.0			470.0		192.0			
1989	15,871	15,867	162.0		190.0											
1990	17,249	17,245														
	DEDCONS	AVERAGE														
YEAR	PER	POPULA-					DED CAD	ITA WAT	ED LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION							-11 00-	(3pou))	_				gpcd	afpci
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
														• • • • • • • • • • • • • • • • • • • •		
1980	2.50	24,365	160	157	184	209	359	461	489	474	367	256	219	187	295	0.330
1981	2.51	25,707	162	142	148	211	290	456	466	447	285	174	118	109	251	0.282
1982	2.52	26,692	114	99	112	154	415	521	500	442	323	232	145	146	268	0.300
1983	2.53	27,469	134	125	142	167	323	540	532	504	428	282	209	168	297	0.333
1984	2.54	28,809	174	156	193	265	434	501	567	517	439	246	164	161	320	0.358
1985	2.55	29,905	150	156	156	286	422	542	536	481	347	306	191	150	311	0.349
1986	2.56	32,621	137	140	143	258	444	521	564	530	361	303	255	162	319	0.358
.,,	2.56	35,355	162	152	167	316	415	485	489	484	407	304	171	146	309	0.346
1987		37,415	134	181	238	241	285	397	483	463	419	314	171	146	291	0.325
	2.57										777	222				0 70/
1987	2.57	40,984	128	143	150	226	353	403	474	427	336	228	222	183	273	0.306
1987 1988		40,984 44,695	128 160	143 160	150 198	226 257	353 301	403 376	474	441	374	297	215	183	273 285	0.319

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SACRAMENT	0		WATER A	AGENCY.		.SACRAM	ENTO, C	TTY OF			ORIGIN	OF WATE	R (in	percent):	
CITY	SACRAMENT	0		TYPE O	AGENC	·	.MUNICI	PAL WATE	R DEPAR	RTHENT						
SYSTEM #	f		. 34020									SURF	ACE WATE	R	. 95	
HYDROLOG	IC REGION		SACRAMI	ENTO RIV	/ER	SYST	EM SERV	ES:				WELLS	S AND SE	RINGS.	. 5	
PLANNING	SUBAREA	#	.CENTRA	L BASIN	EAST											
DAU #			. 172		ENT	IRE CI	ΤΥ	• • • • • • •								
					ENT	IRE CI	TY PLUS	OUTSIDE				SOURCE	OF WATE	R (in	percent):	
CITY CEN	ISUS POPUL	ATION			POF	RTION O	F THE C	ITY								
1980		275,741			OTI	ER				. х		PURCI	ASED		. 0	
1990		369,365										SELF	SUPPLIE	D	. 100	
					SERVICE	CONNE	CTIONS	/1								
RESIDENT	TAL:			COMMER	CIAL:			INDUST	RIAL:			GOVERNI	MENTAL:			
Metere	d	0		Meter	red	2,841		Meter	red	. NA		Meter	red	. NA		
Flat R	ate	107,627			Rate			Flat	Rate				Rate			
		•				•										
YEAR	ACTIVE	SERVICE				TOTAL I	WATER I	NTO SYS	TEM (MIL	LION G	ALLONS)					
OF		TIONS /2								-						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	r JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	93,481	93,481	1482.0	1342.0	1567.0	2043.0	2796.0	3427.0	4059.0	3941.0	3395.0	2279.0	1964.0	1634.0	29929.0	
1981	94,135	94,135	1531.0	1378.0	1551.0	2276.0	3069.0	4328.0	4499.0	4219.0	3464.0	2254.0	1594.0	1440.0	31603.0	
1982	98,024														29369.0	
1983	100,240														29525.0	
1984	101,307														34792.0	
1985		102,728														
1986	104,668														35668.0	
1987		107,704														
1988	-	109,305														
1989	-	110,663														
1990		110,330														
VEAD	PERSONS	AVERAGE					DCD C1	DITA 1144	ren Hen	d mm = 12	a					
YEAR	PER	POPULA-					PER CA	PITA WAT	IER USE	(gpca)	/3		•		ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.95	275,741	173	168	183	247	327	414	475	461	410	267	237	191	297	0.333
1981		281,418		175	178	270	352		516	484	410	258	189	165	308	0.345
1982		296,947			165	196	351		443	445	305	280	176	157		0.303
1983		307,650		163	162	194	277		422	421	351	277	184	161	263	0.294
1984		314,958		170	209	267	396		507	461	411	258	177	162	303	0.339
1985		328,154	152		170	272			477	429	317	277	201	173	288	0.322
1986		333,742		164	179	245	358		479	450	329	269	250	174	293	0.328
1987		347,710		165	176	293			466	453	386	288	199	180	299	0.335
1988		357,230		205	247	263			457	430	383	309	198	177	295	0.330
1989		366,074	169	164	157	240			441	408	310	258	188	165	269	0.301
1990		374.236		159	181	257	279		393	400	348	331	236	192		0.305
.,,,	3.33	3, 2.00	100	137	101	231	2.7	320	3,3	700	5-10	331	نحب	172	212	0.303
AVERAGE			163	170	183	249	337	415	461	440	360	279	203	173	287	0.321

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SACRAMENT	-			GENCY					FK N121	KIUI	OKIGIN	OF WATE	c (in p	ercent):	
	DRANGEVAL			TYPE OF	AGENCY.		PUBLIC	MATER D	ISTRICT						400	
	• • • • • • • • • • • • • • • • • • • •							_					CE WATE			
	C REGION					SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
	SUBAREA			BASIN												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	172				Y									
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •	-			OTHE	ER	• • • • • • •	• • • • • • •	• • • • • • •	x			ASED			
1990	• • • • • • • • • • • • • • • • • • • •	20,000										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC										
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM				
Metered	d	111		Meter	ed	321		Meter	ed	NA		Meter	ed	25		
Flat R	ate	6,768		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	NA		
MEAD						TOTAL	ATER ***	TO 0VCT	EM CMT	104 64	LLONGS					
YEAR	ACTIVE					IUIAL W	RIEK IN	10 3131	EM (MIL	LIUN GA	LLUNS)					
OF		TIONS /2			****	400				4114	SEP	OCT	NOV	DEC	ANNUAL	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	oci	NUV	DEC	ANNUAL	
1980	4,000	4,000	/5	-	-	-	-			-		-	-			
1981	4,200	4,200	-	-	-	-	-	-	-	-	-	-	-	-	-	
1982	4,400	4,400	-	-	-	-	-	-	-	-	-	-	-	-	-	
1983	4,600	4,600	-	-		-	-	-	-	-	-	-	-	-	-	
1984	4,884	4,884	-	-	-	-	-	-	-	-	-	-	-	-	-	
1985	5,000	5,000			-		_	-	-	-	-	-	-	-	-	
1986	5,200	5,200	-		-	-		-	-	-	-	-	-	-	-	
1987	5,400	5,400	-		-		-	-	-	-	-	-	-	-	-	
1988	5,676	5,676	191.0	228.0	250.0	231.0	337.0	430.0	525.0	464.0	400.0	280.0	226.0	148.0	3710.0	
1989	6,207	6,207	159.0	267.0	322.0	314.0	425.0	579.0	612.0	593.0	365.0	328.0	474.0	345.0	4783.0	
1990	6,402	6,402	321.0								387.0	410.0	239.0	215.0	4309.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DER CAR	ITÀ UAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								(ap)					gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	1.75	7,000	-	-	-	-		-	-	-	-	-		-	-	-
1981	1.89	7,927	-	-	-	-	-	-	-	-	-	-	-		-	-
1982	2.02	8,909	-	-	-	-		-	-	-	-	-	-	-	-	-
1983	2.16	9,946	-	-	-	-	-	-		-	-	•	-	-	-	-
1984	2.30	11,231	-	-		-	-		-		-	-	-	-	-	-
1985	2.44	12,185		-	-	-	-		-	-		-		-	-	
1986	2.57	13,387		-	-	-	-		-		-	-	-	-	-	
1987	2.71	14,644	-	-	-	-	-				-	-	-	-	-	-
1988	2.85	16,172	381	486	499	476	672	886	1,047	926	824	559	466	295	629	0.70
		18,538	277	514	560	565	740	1,041	1,065	1,032	656	571	852	600	707	0.79
	2.00															
1989 1990	2.99 3.12	20,000	518	516	610	537	563	682	816	781	645	661	398	347	590	0.66

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Missing data is unavailable.

	SACRAMENT				GENCY						Г	ORIGIN	OF WATE	R (in p	percent):	
	NORTH HIC			TYPE OF	AGENCY	• • • • • • •	PUBLIC	WATER I	DISTRIC	r						
SYSTEM #	ř		34001									SURFA	CE WATE	R	. 0	
HYDROLOG	GIC REGION	l	SACRAME	ENTO RIV	ÆR	SYSTE	M SERVE	ES:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	CENTRAL	BASIN	EAST											
DAU #			173		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE	E			SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		91,000			OTH	ER				. х		PURCH	ASED		. 0	
1990		95,000										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	TAL:			INDUST	RIAL:			GOVERNM	ENTAL:			
Metere	d	14.379		Meter	ed	1.000			red	. 71			ed	100		
	ate				Rate				Rate				Rate			
						•			Marca .					•		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER II	YEVE OTV	TEM (MII	LION G	LLONS					
OF		TIONS /2					Al	013	(rill							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
NECOND	313164		on.			AF N				NUG	JCF		MOA	DEC	MINUAL	
1980	21,753	21,753	292.0	332.0	359.0	520.0	780.0	1075.0	1106.0	1099.0	931.0	711.0	434.0	392.0	8031.0	
1981	21,810		337.0												8187.0	
1982	21,826	21,826	325.0	300.0	355.0	412.0	919.0	1008.0	1113.0	1147.0	804.0	566.0	333.0	358.0	7640.0	
1983	21,878	21,878	378.0	309.0	358.0	427.0	740.0	1011.0	1228.0	1162.0	923.0	649.0	371.0	350.0	7906.0	
1984	21,903	21,903	385.0	364.0	470.0							744.0				
1985	21,941	21,941	391.0												8582.0	
1986	22,037		332.0		388.0							648.0		393.0		
1987	22,081	22,081	372.0	341.0					1188.0			771.0		394.0	8628.0	
1988	22,088				649.0										8649.0	
1989	22,251														7882.0	
1990	22,336														7922.0	
WEAD		AVERAGE					DED 045		ren mor		ca.				**********	
YEAR	PER	POPULA-					PER CAP	TIA WA	TER USE	(gpca)	/3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
		04 000	10/	124	427	100	27/	701	700	700	7/4	262	450	470	2/2	0 274
1980	4.18	91,000	104	126	127	190	276	394	392	390	341	252	159	139	242	0.271
1981	4.19	91,391	119	118	126	209	288	469	447	407	329	189	127	109	245	0.275
1982	4.20	91,610	114	117	125	150	324	367	392	404	293	199	121	126	228	0.256
1983	4.20	91,982	133	120	126	155	260	366	431	408	334	228	134	123	235	0.264
1984	4.21	92,240	135	136	164	235	348	459	465	442	371	260	156	136	277	0.310
1985	4.22	92,553	136	151	130	223	348	379	435	416	300	242	165	115	254	0.285
1986	4.23	93,112	115	116	134	163	312	412	433	385	368	224	209	136	251	0.282
1987	4.23	93,452	128	130	139	251	310	404	410	391	317	266	143	136	253	0.283
1988	4.24	93,636	120	173	224	212	271	366	364	445	331	242	158	121	253	0.283
1989	4.25	94,483	123	132	132	179	305	354	402	368	268	171	163	138	229	0.256
1990	4.25	95,000	107	140	128	218	236	272	367	371	292	285	165	154	228	0.256
AVERAGE			121	133	141	198	298	386	413	402	322	233	155	130	245	0.275

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SACRAMENT			WATER A						RICT		ORIGIN	OF WATE	R (in p	ercent):	
	CARMI CHAE			TYPE OF	AGENCY.	• • • • • • • • • • • • • • • • • • • •	PUBLIC	MATER D	ISTRICT							
		•••••											CE WATE		60	
						SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	40	
		#		BASIN												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	173				γ			X						
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL				POR	TION OF	THE CI	ΤΥ	• • • • • • •							
1980	• • • • • • • • •	30,000			IKTO	ER	• • • • • • •					PURCH	ASED	• • • • • •	60	
1990	• • • • • • • • •	38,550										SELF	SUPPLIE	D	40	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	0		Meter	ed	549		Meter	ed	NA		Meter	ed	3		
Flat R	ate	11,000		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	1		
YEAR OF	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	9,000		165.0	179.0	213.0	178.0	339.0	346.0	571.0	616.0	732.0				4344.0	
	9,250	9.250	161.0	210.0	184.0	240.0	392.0	593.0	750.0	623.0	451.0	277.0	203.0	157.0	4241.0	
1982	9,500	9,500	195.0	182.0	166.0	162.0	421.0	583.0	593.0	665.0	549.0	294.0	239.0	175.0	4224.0	
1983	9,750	9,750	168.0	170.0	179.0	250.0	218.0	545.0	736.0	599.0	501.0	350.0	285.0	212.0	4213.0	
1984	10,000	10,000	211.0	187.0	194.0		420.0		735.0	685.0		437.0	235.0	186.0	4881.0	
1985	10,030	10,030	228.0	164.0					623.0		256.0	403.0	460.0	195.0	4665.0	
1986	10,442	10,442	207.0	197.0			463.0				395.0	230.0	211.0	175.0	3995.0	
1987	10,725	10,725		159.0			501.0			613.0	611.0	374.0		147.0	4656.0	
1988	10,600	10,600	172.4	192.3			295.0					425.3		198.2	4542.4	
1989	10,709	10,709	187.0		164.9											
1990	10,830			172.0												
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.33	30,000	177	206	229	198	365	384	614	662	813	540	284	266	397	0.444
1981	3.36	31,043	167	242	191	258	407	637	779	647	484	288	218	163	374	0.419
1982	3.38	32,096	196	203	167	168	423	605	596	668	570	295	248	176	361	0.404
1983	3.40	33,162	163	183	174	251	212	548	716	583	504	340	286	206	348	0.390
1984	3.42	34,238	199	188	183	289	396	644	692	645	616	412	229	175	391	0.437
1985	3.45	34,568	213	169	258	336	539	678	581	401	247	376	444	182	370	0.414
1986	3.47	36,224	184	194	183	231	412	561	454	481	363	205	194	156	302	0.33
1987	3.49	37,448	108	152	178	386	432	614	507	528	544	322	184	127	341	0.38
1988	3.51	37,446	149	178	224	303	255	514	557	561	512	368	200	172	334	0.374
				167	140	246	432	484	574	434	413	225	213	158	305	0.34
1989 1990	3.54 3.56	37,877	159 159	159	158	284	349	341	476	476	438	352	199	172	298	0.33
1990	3.36	38,550	129	139	130	204	349	J-1	470	4,0	400	372	1,77	.,,	2,0	7.55
AVERAGE			170	186	190	268	384	546	595	553	500	339	245	177	347	0.389

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SACRAMENT			TIPE OF	AGENCY.		ODLIC !	MIEK DI	SIRIL							
													E WATER		0	
						SYSTE	1 SERVE	S:				WELLS	AND SPE	INGS	100	
		#		BASIN I												
OAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	173					••••••								2.0
								OUTSIDE.				SOURCE (OF WATER	(in p	ercent):	
	ISUS POPUL							ΤΥ							٠.	
	• • • • • • • • • • • • • • • • • • • •	-			OTHE	R	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	•••••	Х			ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	6,500										SELF S	SUPPLIED		100	
					SERVICE	CONNEC										
ESIDENT			,	COMMERC				INDUSTRI				GOVERNM		_		
	d	0			ed	68			d	NA			ed	3		
Flat R	ate	1,685		Flat	Rate	38		Flat F	ate	NA		Flat I	Rate	1		
VEAR	ACTIVE	OF DIVINO				O741 11	TED THE	TO CYCT	-M /MT11	101 041	1000					
YEAR	ACTIVE	SERVICE TIONS /2			1	UIAL W	HER IN	TO SYSTE	in (MILL	.IUR GAI	LUNS)					
RECORD	SYSTEM	CITY	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
KELUKU	SISIEM		unn	LCD	mak	AFK	mai	JUN	JUL	AUG	SEP		HUV	UEC	AMMUAL	
1980	1,785	1,785	22.0	21.0	17.0	27.0	42.0	65.0	66.0	80.0	69.0	50.0	34.0	26.0	519.0	
1981	1,786	1,786	20.0	18.0	21.0	28.0	50.0	70.0	88.0	86.0	72.0	40.0	24.0	20.0	537.0	
1982	1,788	1,788	19.0	20.0	20.0	21.0	41.0	64.0	72.0	89.0	54.0	33.0	27.0	22.0	482.0	
1983	1,785	1,785	20.0	22.0	20.0	20.0	29.0	32.0	66.0	82.0	68.0	48.0	34.0	20.0	461.0	
1984	1,790	1,790	19.0	33.0	26.0	23.0	51.0	77.0	81.0	90.0	80.0	51.0	25.0	21.0	577.0	
1985	1,792	1,792	22.0	22.0	21.0	36.0	55.0	75.0	71.0	67.0	71.0	54.0	14.0	19.0	527.0	
1986	1,801	1,801	20.0	22.0	21.0	28.0	41.0	65.0	85.0	73.0	79.0	39.0	45.0	32.0	550.0	
1987	1,801	1,801	22.0	25.0	21.0	36.0	69.0	68.0	83.0	98.0	80.0	61.0	34.0	21.0	618.0	
1988	1,806	1,806	23.0	26.0	30.0	48.0	39.0	51.0	82.0	85.0	77.0	59.0	36.0	20.0	576.0	
1989	1,811	1,811	23.0	21.0	13.0	38.0	35.0	65.0	80.0	74.0	79.0	38.0	29.0	25.0	520.0	
1990	1,811	1,811	21.0	21.0	19.0	33.0	52.0	44.0	70.0	82.0	65.0	59.0	39.0	25.0	530.0	
YEAR	PERSONS PER	AVERAGE POPULA-					250 DAD		D 1105						ANNUALLY	
OF	CONNEC-	TION				'	PEK CAP	ITA WATE	K USE	(gpca)/.	•					-6-
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	afp
ELUKU		OCK VED	JAR	1.00	mAR	AFR	HAI	JUN	W.L.	~~~	3EP		HUV	DEC	/3	/4
1980	3.36	6,000	118	121	91	150	226	361	355	430	383	269	189	140	237	0.26
1981	3.38	6.044	107	106	112	154	267	386	470	459	397	213	132	107	243	0.27
1982	3.41	6,092	101	117	106	115	217	350	381	471	295	175	148	117	- 217	0.24
1983	3.43	6,122	105	128	105	109	153	174	348	432	370	253	185	105	206	0.23
1984	3.45	6,180	99	184	136	124	266	415	423	470	432	266	135	110	256	0.25
1985	3.48	6,228	114	126	109	193	285	401	368	347	380	280	75	98	232	0.26
1986	3.50	6,300	102	125	108	148	210	344	435	374	418	200	238	164	239	0.26
1987	3.52	6.341	112	141	107	189	351	357	422	499	421	310	179	107	267	0.29
	3.54	6,400	116	140	151	250	197	266	413	428	401	297	188	101	247	0.27
1988	3.57	6,459	115	116	65	196	175	335	400	370	408	190	150	125	221	0.24
1988 1989					400	.,,										
	3.59	6,500	104	115	94	169	258	226	347	407	333	293	200	124	223	0.25

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capite annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

	SACRAMENTO			WATER A						RICT		ORIGIN (OF WATE	R (in p	ercent):	
	CARMI CHAEL			TYPE OF	AGENCY.		PUBLIC I	MATER D	ISTRICT							
	• • • • • • • • •												CE WATE		97	
	IC REGION.					SYSTE	4 SERVE	S:				WELLS	AND SPI	RINGS	3	
LANNING	SUBAREA #	¥	CENTAL	BASIN E	AST											
AU #	• • • • • • • •	• • • • • • • •	173				Y									
							Y PLUS					SOURCE (OF WATER	R (in p	ercent):	
ITY CENS	SUS POPULA	ATION			POR'	TION OF	THE CI	τγ								
1980		51,200			ОТН	ER				X		PURCH	ASED	• • • • • • •	97	
1990		66,897										SELF :	SUPPL I E	D	3	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Hetere	d	411		Meter	ed	1,368		Meter	ed	NA		Heter	ed	NA		
Flat R	ate	18,033		Flat	Rate	0		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE S					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL.	
1980	11,156	11.156	150.0							446.0	404.0	302.0	203.0	174.0	3461.0	
1981	13, 135			146.0							402.0				3755.0	
1982	13,100			158.0							329.0				3534.0	
1983	•	13,100		154.0							446.0				3759.0	
	13,100		196.0	178.0			519.0						201.0		4443.0	
1984 1985	15,000	15,000													4705.0	
	15,000											379.0			4955.0	
1986	15,987			254.0			620.0					495.0			6122.0	
1987	18,316	18,316 19,550		338.0											6045.0	
1988	19,550			225.0											5496.0	
1989 1990	19,771 19,813	19,771 19,813														
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
RECORD	TION	SERVED	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
									200	204	2/7	400	470	440	400	0.2
1000	4.59	51,200	95	90	101	145	219	289	299	281	263	190	132	110	185	
1980		58,689	74	89	93	146	166	329	312	346	228	126	101	87	175	0.1
1981	4.47							277	282	295	193	133	105	98	170	0.1
1981 1982	4.35	56,944	91	99	102	116	244		705	~~~	2/0	47/	441	400	404	
1981 1982 1983	4.35 4.23	55,355	100	99	100	120	200	278	325	337	269	176	114	108	186	
1981 1982 1983 1984	4.35 4.23 4.10	55,355 61,564	100 103	99 100	100 123	120 171	200 272	278 294	351	306	254	173	109	106	198	0.2
1981 1982 1983 1984 1985	4.35 4.23 4.10 3.98	55,355 61,564 59,744	100 103 110	99 100 120	100 123 115	120 171 202	200 272 282	278 294 329	351 421	306 307	254 234	173 201	109 135	106 125	198 216	0.2
1981 1982 1983 1984	4.35 4.23 4.10	55,355 61,564 59,744 61,736	100 103 110 109	99 100 120 111	100 123 115 124	120 171 202 178	200 272 282 259	278 294 329 346	351 421 353	306 307 310	254 234 259	173 201 198	109 135 195	106 125 190	198 216 220	0.2
1981 1982 1983 1984 1985	4.35 4.23 4.10 3.98	55,355 61,564 59,744	100 103 110	99 100 120 111	100 123 115 124 157	120 171 202 178 244	200 272 282 259 292	278 294 329 346 391	351 421 353 382	306 307 310 372	254 234 259 318	173 201 198 233	109 135 195 148	106 125 190 132	198 216 220 245	0.2
1981 1982 1983 1984 1985 1986	4.35 4.23 4.10 3.98 3.86	55,355 61,564 59,744 61,736	100 103 110 109 129 125	99 100 120 111 132 165	100 123 115 124 157 191	120 171 202 178 244 199	200 272 282 259 292 243	278 294 329 346 391 310	351 421 353 382 352	306 307 310 372 367	254 234 259 318 312	173 201 198 233 238	109 135 195 148 154	106 125 190 132 142	198 216 220 245 234	0.2 0.2 0.2 0.2
1981 1982 1983 1984 1985 1986 1987	4.35 4.23 4.10 3.98 3.86 3.74	55,355 61,564 59,744 61,736 68,508	100 103 110 109 129	99 100 120 111 132 165	100 123 115 124 157	120 171 202 178 244 199 189	200 272 282 259 292 243 389	278 294 329 346 391 310 344	351 421 353 382 352 327	306 307 310 372 367 357	254 234 259 318 312 253	173 201 196 233 238 127	109 135 195 148 154 142	106 125 190 132 142 122	198 216 220 245 234 218	0.2 0.2 0.2 0.2 0.2
1981 1982 1983 1984 1985 1986 1987 1988	4.35 4.23 4.10 3.98 3.86 3.74 3.62	55,355 61,564 59,744 61,736 68,508 70,752	100 103 110 109 129 125	99 100 120 111 132 165 116	100 123 115 124 157 191	120 171 202 178 244 199	200 272 282 259 292 243	278 294 329 346 391 310	351 421 353 382 352	306 307 310 372 367	254 234 259 318 312	173 201 198 233 238	109 135 195 148 154	106 125 190 132 142	198 216 220 245 234	0.2 0.2 0.2 0.2 0.2 0.2 0.2

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually
*Northridge WD purchased Arvin WC in 10/86.

	BUCKINGHA			TPE UP	AGENCY.	Р	ORTIC M	ATER DIS	SIRICT							
SYSTEM #	• • • • • • • • • •		17011									SURFAC	E WATER	• • • • • •	50	
		S. #s			R	SYSTEM	SERVES	:				WELLS	AND SPR	INGS	50	
		•••••	174													
								UTSIDE.				SOURCE O	F WATER	(in pe	rcent):	
	POPULAT							Υ								
		800			OTHE	R	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	X			SED		50	
1990	• • • • • • • • • • • • • • • • • • • •	1,110		_								SELF S	UPPLIED	• • • • • •	50	
			_		ERVICE	CONNECT										
ESIDENT		2/2	C	OMMERCI			1	NDUSTRI				GOVERNME				
	d	363			d	4		Metere		0		Metere		NA		
Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		Flat R	ate	NA		
YEAR	ACTIVE	SERVICE			T	OTAL WA	TER INT	O SYSTE	M (MILL	ION GALI	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	277	277	6.0	5.5	5.2	5.5	5.1	3.3	3.8	3.7	2.4	1.7	1.8	1.8	45.6	•••••
1981	291	291	1.8	1.7	2.1	2.5	2.6	3.5	4.2	4.3	3.7	1.8	1.4	1.9	31.5	
1982	/6	• .	-	-	-		-	-	-	-	-				-	
1983	305	305	-	-	-	-	-	-	5.5	5.3	4.0	2.5	2.1	1.6		
1984	312	312	1.9	2.1	2.3	2.8	4.7	5.0	6.3	5.6	4.0	3.0	2.4	2.2	42.2	
1985	329	329	3.8	1.7	2.3	2.3	4.2	5.3	4.0	4.1	2.4	2.6	2.1	2.0	36.8	
1986	330	330	2.7	1.9	2.5	2.6	4.9	5.8	5.3	5.6	3.2	2.7	2.2	2.1	41.5	
1987	348	348	2.2	1.8	2.0	2.9	4.2	5.1	5.2	6.4	4.1	3.6	1.8	0.7	40.0	
1988	367	367	2.0	1.7	2.4	3.6	4.5	4.7	6.3	5.7	4.0	2.9	1.8	1.9	41.5	
1989	357	357	-	-	-	-	-	-	-	-			-	-	-	
1990	367	367	2.5	2.1	2.5	3.0	3.1	3.3	5.8	5.9	5.6	2.2	2.3	2.1	40.4	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				p	FR CAPI	TA WATE	R LISE (ancd)/3					NNUALLY	
OF	CONNEC-	TION								Shou), s		•			gpcd	afpc
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.89	800	242	236	208	228	207	136	151	149	99	70	74	72	156	0.175
1981	2.90	844	69	72	80	99	99	138	160	164	146	69	55	73	102	0.114
1982	2.92			-	-	-	-	-		-	-	-	-			-
1983	2.93	893	-	-	-	-	-	-	199	191	149	90	78	58	-	-
1984	2.94	918	66	79	80	101	164	180	220	198	143	106	87	77	126	0.141
1985	2.96	973	126	62	76	79	139	182	133	136	82	86	72	66	104	0.116
1986	2.97	980	89	69	82	88	161	197	174	184	109	89	75	69	116	0.130
1987	2.98	1,038	68	62	62	93	130	164	162	199	132	112	58	22	106	0.118
1988	3.00	1,100	59	53	70	109	132	142	185	167	121	85	55	56	103	0.116
1989	3.01	1,075	-	-	-	-	-	-	-	-	-			-	-	-
			-	10	73	90	90	99	169	171	168	64	69	61	100	0.112
1990	3.02	1,110	73	68	/3	70	70	,,	107		100	04	0,	01	100	0.112

^{1/} Number of services

3/ gpcd - gallons per capita daily

6/ Missing data unavailable

Note: Jan. to May 1980 production values include old system leak

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually

fire protection, and other agencies.

COUNTY	LAKE				ENCY					WATER D	IST.	ORIGIN C	F WATER	(in pe	rcent):	
CITY	CLEARLAKE	OAKS	1	TYPE OF	AGENCY.	p	UBLIC W	MTER DI	STRICT							
SYSTEM #			17001									SURFAC	E WATER		0	
HYDROLOG	IC REGION	S	ACRAHE	NTO RIVE	ER	SYSTEM	SERVES	:				WELLS	AND SPR	INGS	100	
PLANN ING	SUBAREA	#	COUTHWE	T												
AU #			174		ENTI	RE CITY	<i></i>									
					ENTI	RE CITY	PLUS C	UTSIDE.				SOURCE C	F WATER	(in pe	rcent):	
STIMATE	D POPULAT	LON			PORT	ION OF	THE CIT	γ								
1980		2,270			OTHE	R				x		PURCHA	SED		0	
1990		2,550										SELF S	SUPPLIED		100	
					SERVICE	CONNECT	TIONS /	/1								
ESIDENT	IAL:			COMMERC	IAL:		1	NDUSTRI	AL:		-	COVERNME	NTAL:			
Metere	d	1,505		Neter	ed	70		Hetere	d	0		Hetere	d	8		
	ate	-		Flat I	Rate	0		Flat R	ate	0		Flat F	late	0		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER INT	O SYSTE	M (MILI	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	KAL	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,420	1,420	/5	-	•	-	-	-	-	-	-	-	-	-	-	
1981	1,499	1,499	-	•	-	-	•	-	-	-	-	-	-	-	-	
1982	1,500	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	1,514	1,514	-	-	-	-	-	-	-	-	-	-	-	-	-	
1985	1,550	1,550	9.0	8.3	9.8	11.3	13.3	15.8	17.9	16.5	13.1	11.1	9.8	8.6	144.6	
1986			-	-	-	-	-	-	-	-	-	-	-	-	-	
1987	1,581	1,581	8.5	7.8	8.4	10.4	13.3	15.0	15.9	16.3	13.5	10.8	8.5	8.3	136.7	
1988	1,632	1,632	8.7	8.4	10.2	9.8	11.3	12.2	17.6	15.6	14.4	12.6	10.1	10.1	140.9	
1989	1,602	1,602	9.4	10.2	9.2	11.1	12.8	15.1	-	-	-	-	-	-	-	
1990	1,595	1,595	9.0	8.0	11.0	12.0	13.0	16.0	19.0	19.3	16.0	12.0	10.0	15.0	160.3	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	TA WATE	P LICE	(gpcd)/3					NHUALLY	
OF	CONNEC-	TION													apcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
															,- ,-	
1980	1,60	2,270			-					_	-				-	-
1981	1.60	2,396		_			-					-		-	-	
1982	1.60	2,398			-					-	-				-	_
1983	1.60	2,370			_					-	-					-
1984	1.60	2,420			_					-	-				-	_
1985	1.60	2,420	117	120	128	153	173	213	233	215	176	145	131	112	160	0.17
1986	1.60	2,410	"	120	120	- 133	- 113		دد.		-	-	131	-	-	-
1987	1.60	2,528	109	110	107	137	170	198	203	208	178	137	112	106	148	0.16
1988	1.60	2,609	107	111	126	125	139	156	218	193	184	156	129	125	148	0.16
1989	1.60	2,561	118	142	116	144	161	197	210	193	104	130	167	123	-	0.10
1990	1.60	•	114	112	139	157	164	209	240	244	209	152	131	190	172	0.19
1990	1.00	2,550	114	112	137	131	104	207	240	244	209	136	131	170	112	0.13
AVERAGE			113	119	123	143	162	195	224	215	187	147	126	133	157	0.17

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY					GENCY AGENCY.					ANY	(ORIGIN O	F WATER	(in p	ercent):	
CITY				TPE OF	AGENCY.		AIER AS	SUCTATI	CIN							
						ever.							E WATER		40	
		#s			EK	STSTEM	SERVES	:				WELLS	AND SPR	INGS	60	
AU #		•••••	174					UTSIDE.				SOLIDOE O	E HATER	***	ercent):	
CTIMATE	D POPULAT	TON						γ				SUURUE U	F WATER	(in p	ercent):	
										x		DIEDCUA	CED			
		-			OINE	к	• • • • • • • •	•••••	•••••				SED		0	
1990		1,790			SERVICE	COMMECT	TONE	4				SELF S	UPPLIED	•••••	100	
ESIDENT	TAL .			COMMERC		CONNECT		NDUSTRI	AL a			OVERNME	MTAL -			
		469	,			12				0	,			-		
	d				ed	0		Metere		0		Metere		3		
rtat k	ate	U		riat i	Rate	U		Flat R	ate	U		Flat R	ate	0		
YEAR		SERVICE			T	OTAL WA	TER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	425	425	/5	-	-	-	-	-	•	-	-		-	-		
1981			-	-	-	-	-	-	-	-	-	-	-	-	1001	
1982			-	-	-	-	-	-	•	-	-	-	-	-	-	
1983	460	460	-	-	-	-	-	-	6.3	-	-	-	-	-	-	
1984			-	-	-	-	-	-	-	-	-	-	-	-	-	
1985			-	-	-	-	-		-	-	-	-	-	-		
1986			-	-	-	-	-	-	-	-	-	-	-	-		
1987	484	484	4.6	4.2	3.6	6.4	6.8	9.8	8.7	8.7	10.1	5.9	3.6	5.4	77.8	
1988			-	-	-	-	-	-	-	-	-	-	-	-	-	
1989			-	-	-	-	-	-	-	-	-	-	•	-	-	
1990	510	510	•	•	-	-	-	-	-	•	•	-	•	•	-	
	PERSONS	AVERAGE														
EAR	PER	POPULA-				Р	ER CAPI	TA WATE	R USE (ancd)/3					UNNUALLY	
OF	CONNEC-	TION								op.c, c		-			good	afp
CORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.51	1,490		-	-	-		-		-		-		-	-	
1981	3.51		-	-	-		-	-	-	-	-	-	-	-	-	-
1982	3.51		-		-		-	-	-	-	-	-		-	-	
1983	3.51	1,613			-	-	-	-	127	-	-	-		_		
1984	3.51	·	-		-	-	-	-	-	-	-	-		-	-	-
1985	3.51		-			-	-	-	-		•	-		-	-	-
1986	3.51		-		-	-	-	-		-	-	-		-	-	-
1987	3.51	1,698	87	88	68	126	129	192	165	165	198	112	71	103	126	0.14
	3.51											•			-	-
1988			_			_										
1988 1989	3.51				-	_	_		•	_						
	3.51 3.51	1,790	-	•		-	-	-	-	-	-	-	-	•	•	-

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capite daily
4/ afpca - acre-feet per capite annually

COUNTY					ENCY					AREA #6	C	RIGIN O	F WATER	(in pe	rcent):	
CITY	FINLEY		T	YPE OF	AGENCY.	P	UBLIC W	ATER AG	ENCY							
SYSTEM #		• • • • • • • • • • • • • • • • • • • •	17019									SURFAC	E WATER		0	
YDROLOG	IC REGION	\$	ACRAMEN	TO RIVE	R	SYSTEM	SERVES	:				WELLS	AND SPR	INGS	100	
LANNING	SUBAREA	#	COUTHWES	T												
AU #			174		ENTI	RE CITY										
					ENTI	RE CITY	PLUS C	UTSIDE.			S	OURCE O	F WATER	(in pe	rcent):	
STIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	γ								
1980		400			OTHE	R				x		PURCHA	SED		0	
1990		503										SELF S	UPPL IED		100	
				S	ERVICE	CONNECT	IONS /	1								
ESIDENT	IAL:		C	COMMERCI	AL:		1	NDUSTR I	AL:		6	OVERNME	NTAL:			
Metere	d	200		Metere	d	NA		Metere	d	1		Hetere	d	NA		
Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			T	OTAL WA	TER INT	O SYSTE	M (MILL	ION GALI	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	160	160	/5	-	-	-	•	-	-	•	-	-	-	-	-	
1981			-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	•	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984			-	-	-	-	-	-	-	-	-	-	-	-	-	
1985			-	-	-	-	-	-	-	-	-	-	-	-	-	
1986	191	191	1.1	1.1	1.1	1.4	2.0	2.8	3.4	3.6	2.1	1.9	1.5	1.3	23.3	
1987	186	186	1.2	1.2	1.4	1.9	2.6	3.0	3.6	3.7	2.9	2.4	1.8	1.3	27.0	
1988	195	195	1.4	1.2	1.7	1.7	2.2	2.6	3.7	3.4	2.9	2.3	1.5	1.4	26.0	
1989	198	198	1.5	1.7	1.4	1.8	2.4	2.7	3.5	3.3	2.2	2.0	1.6	1.5	25.6	
1990	201	201	1.4	1.3	1.6	2.1	2.4	2.8	3.8	3.5	2.7	1.9	1.5	1.8	26.8	
	DEDGONG	AVERAGE														
YEAR	PER	POPULA-				Р	ER CAPI	TA WATE	R USE (apped)/3					NNUALLY	
DF	CONNEC-	TION								9					gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.50	400			-						-				-	-
1981	2.50				-			-	-	-	-		-	-	-	-
1982	2.50				-			-		-			-	-	-	-
1983	2.50			-	-		-	-		-			-		-	_
1984	2.50				_		-	-		_	_		-		-	_
1985	2.50				_			-		-	-		-	-	-	
1986	2.50	478	74	82	74	98	135	195	230	243	147	128	105	88	134	0.1
1987	2.50	465	83	92	97	136	180	215	250	256	208	166	129	90	159	0.1
1988	2.50	488	93	85	112	116	145	178	245	225	198	152	102	93	146	0.10
1989	2.50	495	98	123	91	121	156	182	228	215	148	130	108	98	142	0.15
1990	2.50	503	90	92	103	139	154	186	244	224	179	122	99	115	146	0.10
1770	2.30	303	70	76	103	137	124	100	277	224	117	122	,,	113	170	0.10
VERAGE			87	95	95	122	154	191	239	233	176	140	109	97	145	0.1

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

COUNTY.								ILLE CO.		T.#3	1	ORIGIN O	F WATER	(in p	ercent):	
	.KELSEYVIL			YPE OF	AGENCY.	F	UBLIC	WATER DI	STRICT							
													E WATER		0	
		S			R	SYSTE	SERVE	S:				WELLS	AND SPR	INGS	100	
PLANNING	SUBAREA	#S	OUTHWES	ST .												
DAU #		•••••	174					OUTSIDE.				SOURCE C	F WATER	(in p	ercent):	
ESTIMATE	D POPULAT	ION			PORT	ION OF	THE CI	ΤΥ						4.11		
1980.		2.925			OTHE	R				х		PURCHA	SED		0	
		-											UPPL IED		100	
		•		5	ERVICE	CONNECT	IONS	/1								
RESIDENT	TIAL:			COMMERC	AL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	ed	804		Meter	d	14		Metere	d	1		Metere	d	3		
Flat I	Rate	0		Flat F	ate	0		Flat R	ate	0		Flat R	ate	0		
		_												•		
YEAR		SERVICE			1	TOTAL W	TER IN	TO SYSTE	M (MILL	ION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
KECOKD	SISIEM	6111	JAN	FCB	PVK	APK	MAT	JUN	JUL	AUG	357	JUI	NUV	DEC	ANNUAL	
1980	665	665	/5	-			-	-			-					
1981	003	003	-												-	
1982												_				
1983																
1984	709		_			_			22.8	22.7	16.0	9.3	7.1	7.5	_	
1985	720		7.3	6.6	7.2	10.6	14.9	19.5	22.0	22.1	10.0	9.3	7.1	1.3	-	
1986	748		7.9	7.0	7.8	9.5	13.3	19.3	21.3	22.5	12.4	10.0	7.9	7.2	146.1	
1987	725		7.3	6.4	7.2	11.7	16.2	19.8	22.6	25.1	17.7	13.9	8.6	8.2	164.7	
1988	805		8.3	8.0	10.5	11.2	12.8	16.8	22.0	22.6	18.6	13.7	9.0	8.8	162.3	
1989	810		0.3	0.0	10.5	111.2	12.0	10.0	21.9	24.4	15.4	11.0	9.0	8.5	102.3	
1990	822	822	8.2	7.8	9.4	12.2	14.5	16.8	22.8	22.5	16.6	13.9	9.3	10.8	164.8	
		AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	ITA WATE	R USE (gpcd)/3	1				ANNUALLY	
OF	CONNEC-	TION						-							gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.40	2,925	-	-	-	-	-	-		-	-	-	-	-	-	-
1981	4.34		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	4.28		-	-	-	-	-	-			-	-	-	-	-	
1983	4.22		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	4.16	2,948	-	-	-	-	-	-	250	248	181	102	80	82	-	
1985	4.10	2,950	80	80	79	120	163	220		-	-	-	-		-	
1986	4.04	3,020	84	83	83	105	142	213	228	240	137	107	87	77	133	0.148
1987	3.98	2,883	82	79	81	135	181	229	253	281	205	156	99	92	157	0.175
1988	3.92	3,153	85	88	107	118	131	178	225	231	197	140	95	90	141	0.158
1989	3.86	3,123					-	-	226	252	164	114	96	88		
1990	3.80	3,120	85	89	97	130	150	179	236	233	177	144	99	112	145	0.162
AVERAGE			83	84	89	122	153	204	236	248	177	127	93	90	144	0.161
MENAGE			ဃ	04	07	124	123	204	۵0	240	177	121	73	90	144	0. 101

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

NYDROLOG PLANNING	IC REGION		1/006									SURFAC	E WATER.		100	
PLANNING	IC REGION															
					R	SYSTEM	SERVES	S:				WELLS	AND SPR	INGS	0	
DAU #	SUBAREA :	#S	DUTHWES	iT												
		• • • • • • • • • • • • • • • • • • • •	174		ENTI	RE CITY	·									
					ENTI	RE CITY	PLUS C	UTSIDE.				SOURCE O	F WATER	(in pe	rcent):	
ESTIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	γ		X						
1980		3,660			OTHE	R			• • • • • •			PURCHA	SED		100	
1990		4,930										SELF S	UPPLIED	• • • • • •	0	
				S	ERV1CE	CONNECT	IONS /	1								
RESIDENT	IAL:		C	COMMERCI	AL:		1	NDUSTR1	AL:			GOVERNME	NTAL:			
Metere	d	1,643		Metere	d	4		Metere	d	0		Metere	d	NA		
Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		Flat R	ate	HA		
YEAR	ACTIVE	SERVICE			T	OTAL WA	TER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,370	1,370	/5	-				-				-	-	-	-	
1981	1,450	1,450		-	-	-	-	-	12.5	11.2	9.1	5.4	4.5	4.5	-	
1982	1,500	1,500	4.5	4.1	4.8	5.1	9.7	10.5	12.5	12.9	8.3	6.3	5.0	4.7	88.5	
1983	1,419	1,419	4.8	4.0	4.6	5.0	8.2	10.7	16.6	15.6	13.0	9.1	6.4	6.6	104.6	
1984	1,441	1,441	6.7	6.5	8.0	9.4	14.5	16.4				-	-		-	
1985	.,		-	-	-	-	-	•	_	-		-	-	-	-	
1986	1,591	1,591	7.3	6.0	6.7	8.5	11.7	14.6	16.3	17.B	10.4	10.2	8.8	7.8	125.9	
1987	.,		-	-	-	-	-	-	-			-	-		_	
1988	1,647	1,647	8.7	8.1	9.4	9.7	11.3	13.6	16.9	16.2	13.9	12.0	8.8	8.3	136.8	
1989			-	-	-	-	-	-	-	-	-	-	-	-		
1990	1,700	1,700	-	-	-	-	-	-	•	-	-	-	-	•	-	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				9	FR CAPI	TA WATE	P USE (ancd)/3					NNUALLY	
OF	CONNEC-	TION				•				Spou,, s					gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.67	3,660	-	-	-	-		-	-	-	-	-	-		-	-
1981	2.69	3,907		-	-	-	-	-	103	92	78	45	39	37	-	-
1982	2.72	4,076	36	36	38	42	77	86	99	102	68	50	41	37	59	0.06
1983	2.74	3,888	40	36	38	43	68	92	138	129	111	75	55	55	74	0.08
1984	2.76	3,981	54	56	65	79	117	137		-			-		-	-
1985	2.79	2,701	-	-	-	".	-			-		-	-	-		
1986	2.81	4,469	53	48	48	63	84	109	117	128	78	74	66	56	77	0.08
1987	2.83	4,407	-	-	-	-	-	-	-	120	70	-	-	-	-	0.00
1988	2.85	4,701	59	59	65	69	78	96	116	111	99	83	62	57	80	0.08
1700	2.88	4,701		37			,0	,,,			"		OE.	٠,	-	0.00
1080	2.00								-	-						
1989	2 00	4 030	-			-	-		_				_			-
1989 1990	2.90	4,930		•	•	-	•	•	-	•	•	-	•	•		•

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	LAKE		1	HATER A	GENCY		AKEPO	RT, CITY	OF			ORIGIN (OF WATER	(in pe	ercent):	
CITY				TYPE OF	AGENCY.		UNICI	PAL WATER	DEPART	MENT						
SYSTEM #			17004									SURFAC	E WATER		12	
HYDROLOG	IC REGION		SACRAME	NTO RIV	ER	SYSTE	1 SERVI	ES:				WELLS	AND SPE	INGS	88	
PLANN ING	SUBAREA	#	SOUTHWE	ST												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	174					OUTSIDE.		х		SOURCE (OF WATER	(in pe	ercent):	
ESTIMATE	D POPULAT	ION			POR1	ION OF	THE C	ITY								
1980		3,675			OTHE	R						PURCH	ASED		0	
1990		4,390										SELF S	SUPPLIED		100	
					SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:		(COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	d	1,399		Meter	ed	394		Metere	d	HA		Meter	ed	11		
Flat R	ate	0		Flat I	Rate	0		Flat R	ate	0		Flat f	Rate	0		
YEAR		SERVICE			1	OTAL W	TER II	TO SYSTE	M (MILL	ION GAL	LONS)					
OF RECORD	SYSTEM	TIONS /2 CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	\$100.7	DEC	AMARIA	
RECURD	313164		JAN	LEB	PIAK	APK	HAT	JUN	JUL.	AUG	3EP		NOV	DEC	ANNUAL	
1980	1,884	1,838	11.3	15.2	13.6	14.0	23.2	19.2	26.7	30.7	23.5	17.2	13.4	13.2	221.2	
1981	1,803	1,759	12.6	19.2	11.9	14.7	19.1	25.1	27.8	26.3	20.7	13.7	11.5	11.9	214.5	
1982	1,830	1,782	12.1	10.4	11.4	11.5	16.9	24.4	26.3	27.0	20.1	16.1	12.1	13.0	201.3	
1983	1,844	1,796	11.2	12.1	10.9	12.6	18.2	24.9	27.0	28.4	22.0	16.5	21.1	11.6	216.5	
1984	1,874	1,826	12.1	10.7	12.6	14.0	22.4	26.4	32.8	31.4	26.2	18.0	13.0	14.0	233.6	
1985	2,193	2,145	13.4	12.4	13.8	17.3	24.0	30.1	35.0	32.4	22.1	20.4	16.2	15.4	252.5	
1986	2,245	2,200	15.3	13.9	13.7	16.4	20.9	29.3	33.9	35.6	24.2	20.5	15.8	15.5	255.0	
1987	2,178	2,127	13.5	12.8	12.7	17.8	26.9	32.2	31.6	38.4	30.7	26.2	17.9	17.2	277.9	
1988	1,867	1,822	17.1	17.1	21.2	20.5	29.5	30.6	39.8	34.2	32.4	16.0	19.3	17.4	295.1	
1989	1,938	1,893	16.5	15.6	16.6	19.5	25.7	13.2	36.2	34.1	25.3	20.5	16.0	15.2	254.4	
1990	2,040	1,999	17.4	13.9	14.4	14.3	22.8	26.5	33.6	32.4	24.9	17.9	21.4	18.0	257.5	1
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	ER CAI	PITA WATE	R USE ((gpcd)/3	;				UNNUALLY	
OF	CONNEC-	TION										-			gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	/3	14
1980	2.00	3,767	97	139	116	124	199	170	229	263	208	147	119	113	161	0.180
1981	2.02	3,640	112	188	105	135	169	230	246	233	190	121	105	105	161	0.181
1982	2.04	3,731	105	100	99	103	146	218	227	233	180	139	108	112	148	0.166
1983	2.06	3,796	95	114	93	111	155	219	229	241	193	140	185	99	156	0.175
1984	2.08	3,894	100	95	104	120	186	226	272	260	224	149	111	116	164	0.184
1985	2.10	4,600	94	96	97	125	168	218	245	227	160	143	117	108	150	0.168
1986	2.12	4,754	104	104	93	115	142	205	230	242	170	139	111	105	147	0.165
1987	2.14	4,655	94	98	88	127	186	231	219	266	220	182	128	119	164	0.183
1988	2.16	4,027	137	146	170	170	236	253	319	274	268	128	160	139	201	0.225
1900	2.18	4,218	126	132	127	154	197	104	277	261	200	157	126	116	165	0.185
1989											400	400				0 47/
	2.20	4,480	125	111	104	106	164	197	242	233	185	129	159	130	157	0.176

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY		E RIVIERA						OCTI MUT				ORIGIN O				
					MULTION 8							SURFAC	E WATER		100	
				NTO RIVE	R	SYSTEM	SERVE	S:					AND SPR		0	
		#													_	
			174		ENTI	RE CITY	ſ									
					ENTI	RE CITY	PLUS	OUTSIDE.			:	SOURCE C	F WATER	(in pe	rcent):	
STIMATE	D POPULAT	ION			PORT	ION OF	THE CI	TY								
1980		600			OTHE	R				×		PURCHA	SED		100	
1990		950										SELF S	UPPLIED		0	
				S	ERVICE	CONNECT	TIONS	/1								
ESIDENT	IAL:			COMMERCI	AL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	d	0		Metere	d	19		Metere	d	0		Metere	d	2		
Flat R	ate	680		Flat R	ate	5		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE				OTAL LI	TED IN	TO SYSTE	M (MT)	TON GAL	LOWS					
OF		TIONS /2			'	OIAL W	TIER IN	10 31316	. turer	שונ						
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	490	490	/5	-	-	-	-	-	-	-	-	-	-	-	-	
1981	509	509	3.3	3.1	3.8	5.6	7.3	9.8	11.4	11.4	8.4	5.7	4.1	4.1	77.8	
1982			-	-	•	•	-	-	-	-	-	-	-	-	-	
1983	537	537	4.6	4-1	4.3	4.6	6.6	7.8	8.0	7.4	4.5	3.9	3.7	4.5	64.0	
1984			-	-	-	-	-	-	-	-	-	-	-	-	-	
1985			-	-	-	-	•	-	-	-	•	-	-	-	-	
1986			-	-	-	-	-	-	-	-	-	-	-	-	-	
1987			-	-	-	-	-	-	-	-	-	-	-	-	-	
1988	706	706	7.1	6.8	8.7	9.0	10.2	12.0	16.4	15.4	13.6	10.8	7.1	6.9	124.0	
1989			-	•	-	-	-	-	-	-	-	-	-	-	-	
1990	775	775	-	-	-	-	-	-	•	-	-	-	-	-	-	
	DEDCONS	AVERAGE														
YEAR	PER *						PER CAR	ITA WATE	R LISE	ancd) /3					UNNUALLY	
OF	CONNEC-	TION												,	gpcd	efp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	1.22	600														
1981	1,22	623	168	175	196	299	379	524	587	587	449	293	221	212	342	0.3
1982	1.22	-	-		-		-	-	-	-	-	-	_	-	-	•
1983	1.22	658	226	223	211	233	324	395	392	363	228	191	188	221	267	0.2
1984	1,23					-	-	-	-	-		-	-		-	-
1985	1.23			_		_	_	_				_			_	-
	1.23			_				-		-		_	_	-	-	-
							_	_				-			-	
1986	1 23															
1986 1987	1.23	865	266	272	325	347	370	462	612	573	524	404	272	257	303	0.4
1986	1.23 1.23 1.23	865	266	272	325	347	379	462	612	573	524	404	272	257	393	0.4

^{1/} Number of services

AVERAGE

508 400 296 227 230 334 0.374

220 223 244 293 360 460 531

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other egencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY										WATER (20. (RIGIN O	F WATER	(in pe	rcent):	
	RIVIERA N			TYPE OF	AGENCY.		ATER AS	SOCIATI	ON							
													E WATER		100	
		#s					SERVES					WELLS	AND SPR	INGS	0	
DAU #			174		ENTI	RE CITY			•••••							
					ENTI	RE CITY	PLUS C	UTSIDE.				COURCE O	F WATER	(in pe	ercent):	
ESTIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	Υ								
					OTHE	R				X		PURCHA	SED	• • • • • •	0	
1990		492										SELF S	UPPLIED	• • • • • •	100	
					ERVICE	CONNECT										
RESIDENT	IAL:		C	COMMERCI	AL:		1	NDUSTRI	AL:		(OVERNHE	NTAL:			
Metere	d	176		Metere	d	0		Hetere	d	0		Hetere		NA		
Flat R	ate	. 3		Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL WA	TER INT	O SYSTE	M (MILL	ION GALI	.ONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	125	125	/5			-			-		-					
1981			-	-	-		-	-	-	-	-	-	-		-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	160	160	-	-	-	-	-	-	-	2.7	2.4	1.7	0.8	0.9		
1985	170	170	0.8	0.8	1.0	1.5	2.2	3.3	-	-	-	-	-	-		
1986	179	179	1.0	1.0	1.1	1.7	2.5	3.5	3.9	3.7	2.6	1.5	1.3	1.3	25.1	
1987	182	182	1.5	1.2	1.4	2.4	2.7	3.3	2.6	2.6	2.1	3.0	2.0	2.0	26.7	
1988			-	-	~	-	-	-	-	-	-	-	-	-		
1989			-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	205	205	1.4	1.0	1.6	2.0	3.2	3.4	3.9	3.9	3.2	2.0	2.0	2.6	30.2	
	DEDOONE	AVERAGE														
YEAR	PERSONS	POPULA-					ED CADI	TA UATE	D LICE /	gpcd)/3					MNUALLY	
OF	CONNEC-	TION				•	LK GAF	in white	N OUL (Shra'), 2		-		•	gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	HAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.00	250	-	-			-			-	-				-	-
1981	2.04		-	-	-			-		-	-	-	-		-	•
1982	2.08		-	-	-			-		-	-	-	-		-	-
1983	2.12		-	-	-		-	-		-	-	-	-			-
1984	2.16	346		-		-	-	-		255	233	157	80	81	-	-
1985	2.20	374	69	76	84	134	185	290			-	-				•
1986	2.24	401	83	89	88	141	201	291	314	298	216	121	108	105	172	0.192
1987	2.28	415	115	102	108	196	209	263	198	198	169	234	163	152	176	0.197
1988	2.32		-	-			-								-	
1989	2.36		-	-	-	-		-		-	-	-	-		-	
1990	2.40	492	92	73	105	136	210	230	256	256	217	131	136	170	168	0.188
AVERAGE			90	85	96	152	201	268	256	252	209	161	122	127	172	0.193

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data is unavailable

COUNTY					ENCY					. MILL	-12	WIGHT C	- maick	(III be	· cart/:	
	SPRING VA			TYPE OF	AGENCY.	Р	UBLIC W	ATER AG	ENCY							
		•••••											E WATER		100	
		I S			R	SYSTEM	SERVES	:				WELLS	AND SPR	INGS	0	
PLANNING	SUBAREA	#s	COUTHWE	ST												
AU #	•••••	• • • • • • • • • • • • • • • • • • • •	174			RE CITY										
					ENTI	RE CITY	PLUS C	UTSIDE.	• • • • • •			SOURCE O	F WATER	(in pe	rcent):	
STIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	Υ								
1980		320			OTHE	R			•••••	X		PURCHA	SED	• • • • • •	100	
1990		660										SELF S	UPPLIED		0	
				5	ERVICE	CONNECT	IONS /	1								
ESIDENT	IAL:		(COMMERCI	AL:		1	NDUSTRI	AL:		(OVERNME	NTAL:			
Metere	d	264		Metere	ed	1		Metere	d	NA		Metere	d	NA		
Flat R	ate	. 0		Flat F	late	0		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL WA	TER INT	O SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	140	140	/5	•	-	-	-	-	•	•		-	•	-	-	
1981			-	-	-	•	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	•	-	-	-	•	
1983			-	-	-	-	-	-	•	-	-	•	-	-	•	
1984	190	190	-	-	-	-	-	•	2.6	2.2	1.2	1.3	1.1	1.2	•	
1985	198	198	1.2	1.1	1.1	1.5	2.2	2.6	-	-	-	-	-	-	-	
1986	219	219	1.2	0.9	1.6	1.6	2.3	3.3	2.9	3.7	2.9	2.7	2.2	2.3	27.4	
1987	221	221	2.1	1.7	2.0	2.5	2.7	3.3	3.6	3.6	3.0	2.7	1.8	1.8	30.7	
1988	233	233	2.1	2.1	2.5	2.5	2.9	3.2	4.1	4.1	3.9	3.1	2.2	2.2	34.8	
1989	237	237	2.3	2.1	1.9	2.4	2.9	3.4	4.0	3.5	2.9	2.6	2.3	2.1	32.4	
1990	265	265	2.0	1.7	2.0	2.5	2.3	3.1	4.1	4.2	3.2	2.7	2.2	2.5	32.5	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAPI	TA WATE	R USE (apped)/3				A	NNUALLY	
OF	CONNEC-	TION													gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000		320														
1980	2.29	320		-	•	-		- :			-		:	:	-	-
				•	•	-	•	-	-	-	-	-	-	•	-	•
1982	2.33		•	-	-	-	•	-	•	•	-	-	•	•	-	•
1983	2.35	180	•	-	-	-	-	-			-	-	-		•	•
1984	2.37	450	•					467	187	158	88	91	80	86	•	•
1985	2.39	473	80	81	75	106	151	183	-	-	*	-	-		-	-
1986	2.41	527	71	63	95	102	138	206	175	225	185	166	139	139	142	0.16
1987	2.43	537	129	115	120	154	163	203	215	215	183	162	112	107	157	0.17
1988	2.45	571	116	124	140	147	164	185	232	231	228	175	130	124	167	0.18
1989	2.47	585	127	128	105	137	160	194	220	193	165	143	131	116	152	0.17
1990	2.49	660	98	92	98	126	112	157	200	205	162	132	111	122	135	0.15
VERAGE			103	101	105	129	148	188	205	204	168	145	117	116	151	0.16
			.00	.01	,05	,		,50	200	200	100	.73		. 10	131	V. 10

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

COUNTY	LAKE							COUNTY		E AREA	¥18 (ORIGIN O	F WATER	(in pe	ercent):	
	STARVIEW			TYPE OF	AGENCY.	Р	UBLIC W	ATER AG	ENCY							
		•••••											E WATER		0	
		#s			R	SYSTEM	SERVES	i:				WELLS	AND SPR	INGS	100	
DAU #			174		ENTI	RE CITY										
					ENTI	RE CITY	PLUS C	UTSIDE.				SOURCE O	F WATER	(in pe	ercent):	
ESTIMATE	D POPULAT	ION			PORT	ION OF	THE CIT	γ								
1980		190			OTHE	R				X		PURCHA	SED		0	
1990		293										SELF S	UPPL IED		100	
				S	ERVICE	CONNECT	IONS /	1								
RESIDENT	IAL:		(COMMERCI	AL:		1	NDUSTRI	AL:		-	GOVERNME	NTAL:			
Metere	d	0		Metere	d	1		Metere	d	0		Metere	d	NA		
Flat R	ate	116		Flat R	ate	0		Flat R	ate	0		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL WA	TER INT	O SYSTE	H (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	100	100	/5						-		-	-			-	
1981			-	-	-	-	-	-	-	-	-	-	-	-		
1982			_			-	-	-	-	-	-			-	-	
1983			-	-	-	_	-	-	-	-	-	-	-	-		
1984			_	-	-	-	-	-	_	-		-		-	-	
1985			-	-	-		-	-	-	-	-	-	-	_		
1986			-	-	-			-		-	-	-	-			
1987	107	107	0.8	0.7	0.8	1.1	1.4	1.6	1.9	1.9	1.7	1.4	1.0	1.1	15.4	
1988	108	108	-	-	-	-	-	-	1.5	1.5	1.4	1.0	0.8	0.9		
1989	109	109	0.9	1.1	1.0	1.0	1.0	1.3	1.7	1.3	1.3	1.1	1.0	1.1	13.8	
1990	117	117	1.2	1.1	1.1	1.7	1.1	1.1	•	-	-	-	•	-	•	
	DEDECME	AVERAGE														
YEAR	PER	POPULA-				p	FR CAPI	TA WATE	ISE (ancd)/3					WNUALLY	
OF	CONNEC-	TION					LK GW	IN MAIL	, ost (gpcu//J		-			gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	1.90	190	-	-	-	-	-	-	-	-	-	-	-	-	•	•
1981	1.96		-	-	-	-	•	-	-	-	-	-	-	-	-	-
1982	2.02		•	-	-	-	•	-	-	-	-	-	-	-	-	"
1983	2.08		-	-	-	-	-	-	-	-	-	-	-	•	-	•
1984	2.14		-	-	-	-	-	-	-	-	-	-	-	-	-	•
1985	2.20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	2.26		•	-	•	-	-	-	-	-	-	-	-	-	•	•
1987	2.32	249	104	101	104	148	182	215	247	247	228	182	134	143	170	0.190
1988	2.38	257	-	-	-	-	-	-	188	188	181	125	104	113	-	•
1989	2.44	266	109	147	121	125	121	163	206	157	163	133	125	133	142	0.159
1990	2.50	293	132	134	121	193	121	125	-	-		_			_	_

^{1/} Number of services

AVERAGE

115 127 115 155 141 167 213 197 191 147 121 130 156 0.175

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

	SACRAMENT	0			ENCY				Y CO. 0	F CALIF	•	ORIGIN O	F WATER	(in pe	rcent):	
	ISLETON			YPE OF	AGENCY.	1	NVESTOR	OWNED								
		• • • • • • • • • • • • • • • • • • • •											E WATER		0	
YDROLOG	IC REGION	S	ACRAMEN	TO RIV	R	SYSTEM	SERVES	:				WELLS	AND SPR	INGS	100	
LANNING	SUBAREA	#D	ELTA SE	RVICE	REA											
AU #		• • • • • • • •	186		ENTI	RE CITY				X						
					ENTI	RE CITY	PLUS C	UTSIDE.	• • • • • •			SOURCE C	F WATER	(in pe	rcent):	
ITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
1980		914			OTHE	R			• • • • • • •			PURCHA	SED		0	
1990	•••••	833										SELF S	UPPLIED		100	
					SERVICE	CONNECT	IONS /	1								
ESIDENT	IAL:		C	COMMERC	IAL:		1	NDUSTRI	AL:			GOVERNME	NTAL:			
Hetere	d	320		Meter	ed	40		Metere	d	NA		Metere	d	NA		
Flat R	ate	0		Flat	Rate	0		Flat R	ate	NA		Flat R	ate	NA		
YEAR	ACTIVE				T	OTAL WA	IER IN	U SYSTE	m (MILL	JUN GAL	LUNS)					
OF		TIONS /2	1611			400	MAN	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	UC1	NUV	DEC	ANNUAL	
1980	300	300	/5		-	-		-		-	-		-	-		
1981	325	325	-	-			-	-	-	-	-	-	-	-	-	
1982	354	354	6.0	5.0	5.0	5.0	6.0	10.0	9.0	10.0	9.0	6.0	6.0	6.0	83.0	
1983	355	355	5.0	6.0	5.0	4.0	6.0	7.0	12.0	10.0	9.0	7.0	5.0	5.0	81.0	
1984	352	352	4.0	4.0	4.0	5.0	7.0	9.0	11.0	10.0	11.0	12.0	11.0	9.0	97.0	
1985	341	341	7.0	5.0	6.0	6.0	7.0	9.0	12.0	9.0	9.0	9.0	8.0	6.0	93.0	
1986	359	359	6.0	6.0	6.0	6.0	7.0	11.0	11.0	11.0	10.0	7.0	8.0	7.0	96.0	
1987	359	359	7.0	7.0	7.0	6.0	8.0	9.0	10.0	10.0	10.0	8.0	6.0	6.0	94.0	
1988	361	361	6.0	5.0	11.0	7.0	7.0	8.0	10.0	11.0	10.0	8.0	7.0	7.0	97.0	
1989	356	356	8.0	7.0	7.0	8.0	9.0	10.0	11.0	10.0	7.0	6.0	6.0	4.0	93.0	
1990	353	353	4.0	4.0	5.0	6.0	5.0	8.0	7.0	11.0	11.0	8.0	7.0	7.0	83.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAPI	TA WATE	R USE	(gpcd)/3	3				WHUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.05	914	-	-			-		-	-	-		-		-	
1981	2.98	968		-	-		-		-		-	-	-	-	-	-
1982	2.91	1,030	188	173	157	162	188	324	282	313	291	188	194	188	221	0.2
1983	2.84	1,008	160	212	160	132	192	231	384	320	297	224	165	160	220	0.2
1984	2.77	976	132	141	132	171	231	307	364	331	376	397	376	298	272	0.3
1985	2.70	922	245	194	210	217	245	325	420	315	325	315	289	210	276	0.3
1986	2.63	946	205	227	205	211	239	388	375	375	352	239	282	239	278	0.3
1987	2.57	921	245	271	245	217	280	326	350	350	362	280	217	210	280	0.3
1988	2.50	901	215	191	394	259	250	296	358	394	370	286	259	250	295	0.3
1989	2.43	865	299	289	261	308	336	386	410	373	270	224	231	149	295	0.3
	2.36	833	155	171	194	240	194	320	271	426	440	310	280	271	273	0.3
1990	2.50															
1990 LVERAGE	2.30		205	208	217	213	239	323	357	355	343	274	255	219	268	0.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

	SOLANO							STA, CITY				ORIGIN (OF WATER	(in pe	rcent):	
	RIO VISTA			TYPE OF	AGENCY.		MUNICI	PAL WATER	DEPART	MENT						
					_								CE WATER		0	
						SYSTE	4 SERV	ES:				WELLS	AND SPE	RINGS	100	
		#		ERVICE /												
DAU #		•••••	186					• • • • • • • • • • • • • • • • • • • •		Х						
								OUTSIDE.				SOURCE (OF WATER	(in pe	ercent):	
	ISUS POPUL							ITY								
	•••••	•			OTHE	R	• • • • • •		•••••				ASED		0	
1990		3,316										SELF S	SUPPL IEI	·····	100	
					SERVICE	CONNECT	TIONS	•								
RESIDENT			(COMMERC				INDUSTRI	AL:			GOVERNME	ENTAL:			
	d				ed	190			d	NA			ed	NA		
Flat R	ate	1,221		Flat	Rate	0		Flat R	ate	NA		Flat I	Rate	2		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER I	NTO SYSTE	M (MILL	ION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	/ JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,260	1,260	15.0	16.0	19.0	27.0	40.0	47.0	56.0	52.0	40.0	36.0	27.0	18.0	393.0	
1981	1,347	1,347	13.0	15.0	17.0	29.0	45.0		59.0	57.0	44.0	28.0	19.0	20.0	407.0	
1982	1,318	1,318	15.0	18.0	17.0	24.0	45.0		55.0	52.0	39.0	29.0	16.0	21.0	372.0	
1983	1,305	1,305	17.0	17.0	17.0	23.0	38.0	51.0	58.0	71.0	62.0	67.0	16.0	34.0	471.0	
1984	1,320	1,320	17.0	17.0	20.0	25.0	45.0	55.0	65.0	70.0	60.0	80.0	20.0	20.0	494.0	
1985	1,341	1,341	24.0	26.0	35.0	43.0	55.0		83.0	81.0	53.0	43.0	32.0	23.0	565.0	
1986	1,337	1,337	15.0	15.0	17.0	30.0	44.0		64.0	51.0	37.0	30.0	17.0	18.0	396.0	
1987	1,319	1,319	15.0	14.0	17.0	38.0	46.0		55.0	54.0	26.0	33.0	18.0	16.0	382.0	
1988	1,360	1,360	14.0	23.0	36.0	29.0	38.0		49.0	54.0	45.0	29.0	19.0	16.0	400.0	
1989	1,377	1,377	7.0	16.0	8.0	25.0	42.0	51.0	58.0	52.0	34.0	24.0	19.0	13.0	349.0	
1990	1,403	1,403	16.0	13.0	18.0	31.0	35.0	42.0	55.0	51.0	34.0	33.0	21.0	21.0	370.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CA	PITA WATE	R USE (gpcd)/3	3				NNUALLY	
OF	CONNEC-	TION										~			gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.49	3,142	154	176	195	286	411	499	575	534	424	370	286	185	343	0.384
1981	2.48	3,341	126	160	164	289	434	609	570	550	439	270	190	193	334	0.374
1982	2.47	3,252	149	198	169	246	446		546	516	400	288	164	208	313	0.351
1983	2.45	3,203	171	190	171	239	383		584	715	645	675	166	342	403	0.451
1984	2.44	3,223	170	182	200	259	450		651	701	621	801	207	200	420	0.470
1985	2.43	3,257	238	285	347	440	545	686	822	802	542	426	328	228	475	0.532
1986	2.42	3,230	150	166	170	310	439	599	639	509	382	300	175	180	336	0.376
1987	2.40	3,169	153	158	173	400	468	526	560	550	273	336	189	163	330	0.370
1988	2.39	3,250	139	244	357	297	377		486	536	462	288	195	159	337	0.378
1989	2.38	3,272	69	175	79	255	414		572	513	346	237	194	128	292	0.327
1990	2.36	3,316	156	140	175	312	340	422	535	496	342	321	211	204	306	0.342
ALEDACE			453	400	200	707	/ 20	E7/	E0/	E9/	//7	700	240	199	354	0.704
AVERAGE			152	188	200	303	428	534	594	584	443	392	210	צעו	334	0.3%

^{1/} Number of services

3/ gpcd - gallons per capita daily

NOTE: 1984 water production was estimated by DWR district office.

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

	SOLANO				GENCY					CE COMP	ANY	ORIGIN C	OF WATER	(in pe	ercent):	
CITY				TYPE OF	AGENCY.	F	PUBLIC 1	MTER DI	STRICT							
SYSTEM #			48002									SURFAC	E WATER		0	
HYDROLOG	IC REGION		SACRAMEN	NTO RIV	ER	SYSTE	SERVES	3:				WELLS	AND SPE	INGS	100	
PLANNING	SUBAREA	#C	ENTRAL	BASIN I	EST											
DAU #			191		ENTI	RE CITY	·									
					ENTI	RE CITY	PLUS C	UTSIDE.		X		SOURCE (OF WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
1980		7,541			OTHE	R						PURCH	ASED		0	
1990		10,401										SELF S	SUPPLIED		100	
					SERVICE	CONNECT	TIONS: 2	2/								
ES IDENT	IAL:			COMMERC	IAL:		1	NDUSTRI	AL:			GOVERNME	ENTAL:			
Metere	d	2,255		Meter	ed	265		Metere	d	133		Metere	ed	26		
	ate			Flat I	Rate	0		Flat F	ate	0		Flat F	Rate	0		
YEAR	ACTIVE				1	OTAL W	ATER INT	O SYSTE	MILL	ION GAL	LONS)					
RECORD	SYSTEM	TIONS 3/	MAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
RECURE	SISIEM	6111	JAN	LEB	PAK	AFK	mni	JUNI	JUL	74,74	ocr	·	NOV.	DEC		
1980	2310	2310	20.2	19.3	23.6	34.7	49.6	57.3	66.6	61.0	49.5	42.3	31.3	22.4	477.8	
1981	2373	2373	22.4	20.8	23.2	39.0	58.1	74.8	70.6	62.7	46.3	32.2	21.9	21.2	493.2	
1982	2393	2393	22.7	19.9	21.9	27.5	57.4	60.4	66.4	63.8	41.3	34.9	23.0	24.2	463.4	
1983	2419	2419	22.1	19.8	22.9	28.7	47.6	62.1	67.5	62.9	53.2	36.6	23.2	22.9	469.5	
	2419	2469	23.2	22.3	30.6	43.4	61.7	61.5	66.5	62.3	55.8	33.6	23.6	24.5	509.0	
1984							59.1	73.5	76.0	67.4	48.9	45.8	30.8	20.7	548.0	
1985	2514	2514	24.8	24.7	30.0	46.3						42.3				
1986	2535	2535	28.1	24.1	27.3	40.9	59.1	71.5	72.0	66.6	45.5		37.4 28.4	26.8	541.6 570.9	
1987	2563	2563	27.0	25.8	30.2	49.4	64.4	68.6	72.2	71.1	60.0	48.1		25.7		
1988	2575	2575	27.3	29.4	40.8	40.2	49.4	62.7	74.1	65.4	57.1	45.8	28.7	27.7	548.6	
1989	2578	2578	27.6	26.1	28.9	42.6	59.5	67.0	72.5	65.3	46.9	37.6	33.4	29.0	536.4	
1990	2583	2583	27.1	24.3	33.3	46.4	50.4	61.6	70.8	65.6	56.6	50.2	34.7	30.7	551.7	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				-	PER CAP	ITA WATE	ER USE	gpcd)/3	3			1	ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.26	7,541	86	88	101	153	212	253	285	261	219	181	138	96	174	0.19
1981	3.34	7,928	91	94	94	164	236	315	287	255	195	131	92	86	170	0.19
1982	3.42	8,177	90	87	86	112	226	246	262	252	168	138	94	95	155	0.17
1983	3.49	8,450	84	84	87	113	182	245	258	240	210	140	92	87	152	0.1
	3.49	8,813	85	87	112	164	226	233	243	228	211	123	89	90	158	0.1
	3.65	9,165	87	96	106	168	208	267	267	237	178	161	112	73	164	0.1
1984	3.72		96	91	93	144	202	253	246	228	161	145	132	92	157	0.1
1985		9,435	89	91			213	235	239	236	205	159	97	85	161	0.1
1985 1986		0	MO	72	100	169		209	240	211	191	148	96	90	151	0.1
1985 1986 1987	3.80	9,734		400	470					(11	171	1425				
1985 1986 1987 1988	3.80 3.87	9,976	88	102	132	134	160				451					
1985 1986 1987 1988 1989	3.80 3.87 3.95	9,976 10,184	88 87	92	92	139	188	219	230	207	154	119	109	92	144	0.16
1985 1986 1987 1988	3.80 3.87	9,976	88								154 181					

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	SOLANO							LLE, CIT		-		ORIGIN	OF WATE	R (in p	ercent):	
	VACAVILLE			TYPE OF	AGENCY	• • • • • • • •	MUNICI	PAL WATE	R DEPAR	TMENT						
		• • • • • • • • •											CE HATE			
						SYSTE	M SERVI	ES:				WELLS	AND SP	RINGS	47	
		#		L BASIN												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	. 191					• • • • • • • •								
								OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							ΙΤΥ								
	• • • • • • • • • • • • • • • • • • • •	-			ОТН	ER		• • • • • • • •	• • • • • • • •			PURCH	ASED		53	
1990	• • • • • • • • • • • • • • • • • • • •	71,479										SELF	SUPPLIE	D	47	
					SERVICE	CONNEC	TIONS									
ESIDENTI				COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	•			ed			Meter	ed	38		Meter	ed	2,778		
Flat Ra	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	L
1980	11,158	11,158	121.0	83.0	138.0	171.0	240.0	269.0	371.0				178.0	122.0	2618.0	
1981	12,376	12,316	129.0					379.0								
1982	12,501	•	145.0					352.0								
1983	12,702		159.0		153.0			385.0								
1984	13,157				210.0	253.0		432.0							3634.0	
1985	13, 159	13,129						442.0							3619.0	
1986	13,405	13,375	186.0					461.0								
1987	14,736	14,706						498.0								
1988	16,451	16,421						443.0							4262.0	
1989	16,915							526.0								
1990	20,412							488.0								
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAF	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.89	43,367	90	66	103	131	179	207	276	269	244	184	137	91	- 165	0.18
1981	3.85	47,631	87	87	88	71	198	265	274	270	236	159	104	94	162	0.18
1982	3.81	47,638	98	100	104	119	224	246	276	285	212	197	124	109	175	0.19
1983	3.77	47,921	107	106	103	120	188	268	291	291	264	197	129	116	182	0.20
1984	3.73	49,138	114	117	138	172	267	293	323	303	256	156	134	148	203	0.22
1985	3.70	48,646	121	131	134	190	226	303	303	314	243	198	147	131	204	0.22
1986	3.66	49,047	122	122	145	191	268	313	343	347	239	224	196	143	222	0.24
1987	3.62	53,357	128	131	145	222	270	311	317	311	272	212	141	138	217	0.24
1988	3.58	58,942	126	146	170	182	207	251	303	280	258	194	126	126	198	0.22
	3.54	59,963	116	120	118	176	244	292	318	306	232	173	155	135	199	0.22
1989																
1989 1990	3.51	71,584	106	104	123	177	196	227	269	258	228	196	153	125	181	0.20

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily



PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

	SAN JOAQU	IIN											OF WATE	R (in p	percent):	
	STOCKTON			TYPE OF	F AGENCY		INVEST	OR OWNER	D/MUNICI	IPAL WA	TER DEP					
	f												ACE WATE			
	IC REGION					SYSTE	M SERVE	ES:				WELLS	S AND SP	RINGS.	. 48	
	SUBAREA			ALLEY FI												
DAU #			182													
									E			SOURCE	OF WATE	R (in p	percent):	
	ISUS POPUL								• • • • • • • • • • • • • • • • • • • •							
	• • • • • • • • • • • • • • • • • • • •				OTH	IER		• • • • • • •	• • • • • • • •	•			HASED			
1990		210,943										SELF	SUPPLIE	D	48	
					SERVICE	CONNEC	TIONS									
RESIDENT				COMMERC				INDUST	PIAL:			GOVERNI	MENTAL:			
Metere	d	59,350			red			Meter	red	. 102		Mete	red	850		
Flat R	ate	0		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL V	ATER II	NTO SYS	TEM (MIL	LION G	ALLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	54,771			590.0	647.0	825.0	1118.0	1494.0	1449.0	1425.0	1323.0	1247.0	892.0	651.0	12284.0	
1981	55,972	-													13012.0	
1982	56,750	46,167														
1983	57,569	-													13386.0	
1984	59,295														15298.0	
1985	60,250	•													15336.0	
1986	60,784														16135.0	
1987	61,567														17384.0	
1988	62,524														17433.0	
1989	63,279	-													17237.0	
1990	64,179														17130.0	
VEAD		AVERAGE					DED C41	N.TA 1185	TEO 110E	(amad)	a				A1118 (A1 1 V	
YEAR	PER	POPULA-					PER CAI	PIIA WA	TER USE	(gpca)	/3	-			ANNUALLY	
OF	CONNEC-	TION	1411	FFD	MAD	400	MAY	11.00	***	4110	ern	007	11001	050	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.41	186,882	108	109	112	147	193	266	250	246	236	215	159	112	180	0.202
1981	3.47	194,225	104	99	105	148	208	282	328	284	255	167	110	108	184	0.206
1982	3.53	200,216	102	108	107	142	228	245	287	274	224	148	111	114	175	0.196
1983	3.59	206,444	102	105	104	133	188	261	286	289	259	168	119	113	178	0.199
1984	3.64	216,072	100	108	145	175	265	253	319	318	261	150	120	101	194	0.217
1985	3.70	223,046	105	114	111	164	239	280	303	311	217	180	118	112	188	0.211
1986	3.76	228,548	123	117	125	163	241	269	314	277	210	188	157	129	193	0.217
1987	3.82	235,062	132	130	130	219	247	274	306	281	258	203	126	121	203	0.227
1988		242,342	114	136	179	177	199	263	288	272	266	183	141	138	197	0.221
1989	3.93	248,937	120	128	129	172	247	252	288	288	205	163	156	123	190	0.212
1990		256,200	111	116	137	176	192		266	266	239	194	147	124	183	0.205
AVERAGE			111	115	126	165	223	261	294	282	239	178	133	118	188	0.210

^{1/} Number of services

^{3/} gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

NOTE: Data from Cal Water Service and the City of Stockton was combined.

	SAN JOAQU	IN			GENCY		-					ORIGIN	OF WATE	R (in p	ercent):	
CITY				TYPE OF	AGENCY	• • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
													CE WATE		_	
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
	SUBAREA			VALLEY												
DAU #	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	182						• • • • • • • •							
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		34,400			OTH	ER						PURCH	ASED		0	
1990		50,328										SELF	SUPPL IE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	22		Meter	ed	713		Meter	ed	50		Meter	ed	37		
Flat R	ate	20,062		Flat	Rate	376		Flat	Rate	2		Flat	Rate	42		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	1411	555		400	MAY			41 100	ern	007	1104	DEC	ANDRIA	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	16,154			150.0	182.0	320.0	415.0	654.0	544.0	579.0	477.0	345.0	235.0			
1981	16,598				160.0						475.0			157.0		
1982		16,752												158.0		
1983	16,758	•			175.0			494.0			400.0	287.0		172.0		
	17,406	17,400										318.0				
1984	17,802	17,796	175.0	168.0			499.0							170.0		
1985	19,690	19,684	197.0						754.0				244.0			
1986	20,819	20,813		180.0				495.0						202.0		
1987	21,906	21,900		223.0				575.0				366.0	256.0	207.0		
1988	22,053	22,047		210.0				550.0				418.0			4915.0	
1989	22,053	22,047							704.0			315.0		210.0		
1990	22,002	21,990	210.0	219.0	270.0	440.0	456.0	541.0	659.0	650.0	595.0	433.0	292.0	249.0	5014.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.13	34,413	154	150	171	310	389	633	510	543	462	323	228	157	337	0.377
1981	2.15	35,622	147	158	145	257	342	487	498	531	444	283	177	142	302	0.338
1982	2.16	36,230	144	160	136	157	211	414	540	519	436	248	159	141	273	0.306
1983	2.18	37,907	137	143	149	204	308	434	465	488	352	244	149	146	269	0.301
1984	2.19	39,051	145	148	211	295	412	464	468	433	361	263	156	140	293	0.328
1985	2.21	43,505	146	169	171	302	382	477	559	488	368	277	187	149	307	0.344
1986	2.23	46,329	141	139	173	253	473	356	459	494	322	267	257	141	291	0.325
1987	2.24	49,095	143	162	146	318	363	390	424	464	372	240	174	136	278	0.323
			143	145	143	261	340	368	442	428	378	271	173	140	270	0.303
1988	2.26	49,774														
1989	2.27	50,123	145	147	142	259	319	376	453	447	305	203	179	135	260	0.291
1990	2.29	50,355	135	155	173	291	292	358	422	416	394	277	193	160	273	0.306
AVERAGE			143	153	160	264	348	433	476	477	381	263	185	144	287	0.321

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	CONTRA CO	STA		HATER A	GENCY		BRENTWO	DO, CITY	OF			ORIGIN (OF WATER	(in pe	ercent):	
	BRENTWOOD				AGENCY.			•						pc		
			7004									SURFAC	E WATER	2	0	
HYDROLOG	IC REGION		SAN JOA	QUIN		SYSTE	4 SERVE	S:					AND SPE		100	
PLANNING	SUBAREA	#	DELTA S	ERVICE	AREA											
			185			RE CIT	r			х						
								OUTSIDE.				SOURCE (OF WATER	(in pe	ercent):	
	SUS POPUL				POR1	TION OF	THE CI	ΓΥ	•••••							
1980		4,434			OTHE	R						PURCHA	SED	• • • • • • •	0	
1990	• • • • • • • •	7,563										SELF S	SUPPLIED		100	
					SERVICE	CONNECT	TIONS ,	/1								
RESIDENT	IAL:		(COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	NTAL:			
Metere	d	2,400		Meter	ed	148		Metere	d	NA		Metere	ed	10		
Flat R	ate	0		Flat	Rate	0		Flat F	ate	0		Flat F	late	0		
YEAR	ACTIVE				1	TOTAL W	ATER IN	TO SYSTE	M (MILL	.10N GAL	LONS)					
DF RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
1980	1,189	1,189	15.0	13.0	16.0	20.0	28.0	32.0	34.0	34.0	28.0	24.0	19.0	15.0	278.0	
1981	1,286	1,286	15.0	14.0	16.0	25.0	33.0	39.0	39.0	36.0	32.0	22.0	16.0	16.0	303.0	
1982	1,310	1,310	15.0	14.0	15.0	17.0	32.0	34.0	40.0	37.0	31.0	25.0	17.0	17.0	294.0	
1983	1,319	1,319	14.0	13.0	15.0	18.0	27.0	35.0	38.0	35.0	30.0	24.0	16.0	9.0	274.0	
1984	1,537	1,537	16.0	16.0	21.0	27.0	37.0	38.0	45.0	37.0	28.0	32.0	17.0	15.0	329.0	
1985	1,582	1,582	15.0	15.0	16.0	21.0	31.0	35.0	44.0	36.0	28.0	27.0	20.0	17.0	305.0	
1986	1,923	1,923	17.0	15.0	20.0	25.0	33.0	43.0	34.0	33.0	25.0	24.0	25.0	17.0	311.0	
1987	2,094	2,094	20.0	18.0	22.0	32.0	40.0	40.0	41.0	42.0	37.0	36.0	22.0	20.0	370.0	
1988	2,122	2,122	19.0	21.0	29.0	31.0	37.0	40.0	48.0	53.0	38.0	30.0	23.0	20.0	389.0	
1989	2,150	2,150	20.0	25.0	21.0	32.0	41.0	49.0	49.0	57.0	51.0	39.0	27.0	25.0	436.0	
1990	2,278	2,278	23.0	22.0	30.0	40.0	46.0	49.0	66.0	65.0	61.0	58.0	40.0	32.0	532.0	
	PERSONS	AVERAGE												-		
YEAR	PER	POPULA-				1	PER CAP	TA WATE	R USE (apped)/3	3				NNUALLY	
OF	CONNEC-	TION													gpcd	afp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.73	4,434	109	101	116	150	204	241	247	247	210	175	143	109	172	0.19
1981	3.69	4,743	102	105	109	176	224	274	265	245	225	150	112	109	175	0.19
1982	3.65	4,778	101	105	101	119	216	237	270	250	216	169	119	115	169	0.18
1983	3.61	4,757	95	98	102	126	183	245	258	237	210	163	112	61	158	0.17
1984	3.57	5,480	94	101	124	164	218	231	265	218	170	188	103	88	164	0.18
1985	3.52	5,576	87	96	93	126	179	209	255	208	167	156	120	98	150	0.16
1986	3.48	6,699	82	80	96	124	159	214	164	159	124	116	124	82	127	0.14
1987	3.44	7,209	89	89	98	148	179	185	183	188	171	161	102	89	141	0.1
1988	3.40	7,219	85	100	130	143	165	185	214	237	175	134	106	89	148	0.1
1989	3.36	7,226	89	124	94	148	183	226	219	254	235	174	125	112	165	0.18
1990	3.32	7,563	98	104	128	176	196	216	282	277	269	247	176	136	193	0.21
VERAGE			94	100	108	145	192	224	238	229	198	167	122	99	160	0.17

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	SAN JOAQU	IIN		WATER A	GENCY		TRACY,	CITY OF				ORIGIN	OF WATE	Ř (in p	ercent):	
CITY	TRACY			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #	ł		39011									SURFA	CE WATE	R	42	
HYDROLOG	IC REGION		SAN JOA	QUIN RI	VER	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	58	
PLANNING	SUBAREA	#	DELTA S	ERVICE	AREA											
DAU #			185		ENT	IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	ту								
												PURCH	ASFD		42	
		•			0111									D		
1770	********	33,000			SERVICE	CONNEC	TIONS	/1				OC ET	0011212		50	
RESIDENT	141.			COMMERC		COMMEC		INDUSTR	TAL .			GOVERNM	ENTAL .			
		0.7/5				470				14				17		
	d				ed				ed				ed			
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	5,966	5.965	126.0	110.0	121.0	195.0	196.0	243.0	310.0	351.0	304.0	184.0	133.0	123.0	23%.0	
1981	6,416	6,415	127.0	115.0	127.0	262.0	183.0	264.0	276.0	341.0	313.0	195.0	147.0	130.0	2480.0	
1982	5,955	5.954												116.0		
1983	7,668				114.0					355.0		154.0	119.0	118.0		
					184.0				314.0		298.0	180.0	133.0	103.0	2456.0	
1984	8,043	-,														
1985	8,715	8,714			142.0			303.0				205.0	138.0	128.0	2797.0	
1986	8,858	8,858			138.0	171.0	189.0		374.0			209.0	168.0	160.0	2550.0	
1987	9,410	9,410			161.0								153.0	145.0		
1988	9,662	9,562			184.0				350.0			236.0	138.0	130.0	2847.0	
1989	9,750													157.0		
1990	9,964	9,703	191.0	176.0	223.0	255.0	292.0	336.0	459.0	447.0	329.0	244.0	209.0	184.0	3345.0	
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	PITA WAT	ED HEE	(ancd)	7				ANNUALLY	
	CONNEC-						PER UN	TIM MAI	EK USE	(gpcu//	,				gpcd	afpc
OF	TION	TION	1011	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
RECORD	IION	SERVED	JAN		PAR					700	SEP		HOV	DEC		/4
1980	3.02	18,003	226	211	217	361	351	450	555	629	563	330	246	220	365	0.408
1981	3.06	19,607	209	209	209	445	301	449	454	561	532	321	250	214	347	0.388
1982	3.09	18,426	219	204	200	232	366	402	611	632	534	301	213	203	344	0.385
1983	3.13	24,021	168	156	153	178	282	309	379	477	333	207	165	158	248	0.278
1984	3.17	25,504	148	155	233	231	296	339	397	433	389	228	174	130	264	0.295
1985	3.21	27,969	148	179	164	310	334	361	394	479	365	236	164	148	274	0.307
1986	3.25	28,768	144	140	155	198	212	307	419	417	305	234	195	179	243	0.272
1987	3.29	30,921	137	151	168	203	233	287	378	421	337	233	165	151	239	0.268
1988	3.32	32,120	135	160	185	212	258	276	352	438	377	237	143	131	243	0.27
1989	3.36	32,786	160	178	201	234	271	306	398	435	352	236	177	154	259	0.290
1990	3.40	33,888	182	185	212	251	278	331	437	426	324	232	206	175	270	0.303
AVERAGE			470	47	400	259	200	7/7	434	486	401	254	191	170	281	0.315
AVERAGE			170	175	190	259	289	347	434	400	401	234	191	170	201	0.315

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	CALAVERAS ANGELS CA				GENCY AGENCY.					TMENT		ORIGIN C	OF WATER	(in p	ercent):	
		um-		ITPE UP	AGENCY.		IUNICIP/	M. WATER	DEPAR	MENT		CI DEAC	- 114 TE		400	
				OLITA PT	VED	CVCTE	SERVE						AND SPI		100	
		#				31316	1 SERVE	J.				WELLS	ANU SPI	(1865	U	
			194			RE CIT										
								OUTSIDE.		х		enibre r	E UATES	/in m	ercent):	
CITY CEN	SUS POPUL	ATION						η		^		JOONUL (/ WATE	· (III p	er cert.	
												PURCHA	SED		100	
		-											SUPPLIED		0	
					SERVICE	CONNECT	TIONS /	/1				000.			•	
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNME	NTAL :			
Metere	d	899		Meter	ed	166		Hetere		2			d	15		
Flat R	ate	8		Flat	Rate	0			ate	0		Flat R	late	11		
YEAR	ACTIVE	SERVICE			T	OTAL W	TER IN	TO SYSTE	M (MILI	ION GAI	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	995	992	/5	-	-	-	-	-	-	-	-	-	-	-	-	
1981			-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-		-	
1983			-	-	-	-	-	-		-	•	-	-	-	-	
1984			-	-	-	-	-	-	-	-	-	-	-	-	-	
1985			-	-	-	-	-	-		-	-		-	-		
1986	1,055	1,048	12.0	11.0	24.0	16.0	23.0	34.0	38.0	37.0	26.0	19.0	16.0	15.0	271.0	
1987	1,084	1,077	15.0	14.0	16.0	21.0	30.0	36.0	37.0	44.0	43.0	28.0	16.0	14.0	314.0	
1988	1,094	1,105	14.0	15.0	19.0	18.0	23.0	32.0	38.0	38.0	31.0	26.0	15.0	13.0	282.0	
1989			-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	1,108	1,100	11.0	10.0	12.0	16.0	21.0	25.0	35.0	34.0	26.0	23.0	13.0	14.0	240.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	ER CAPI	TA WATE	R USE (apped)/3	3			,	UNNUALLY	
OF	CONNEC-	TION													gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.32	2,309						-			-					
1981	2.31	,		-	-	-	-				-	-				
1982	2.29		-		-	-	-		-	-		-	-			-
1983	2.28		-		-	-	-	-	-	-	-	-	-	-	-	-
1984	2.27		-	-	-	-		-	-			-	-		-	-
1985	2.26		-	-	-	-	-				-	-	-	-	-	-
1986	2.24	2,366	164	166	327	225	314	479	518	505	366	259	225	205	314	0.35
1987	2.23	2,416	200	207	214	290	400	497	494	587	593	374	221	187	356	0.39
1988	2.22	2,424	186	213	253	247	306	440	506	506	426	346	206	173	319	0.35
1989	2.20		-	-	-	-	-	-		-	-	-	-	-	-	-
4000	2.19	2,427	146	147	160	220	279	343	465	452	357	306	179	186	271	0.30
1990																

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	TUOLUMNE			WATER AG						J.0131.		ORIGIN O	MAIER	(iii pe	· cart):	
	GROVELAND			TYPE OF	AGENCY.		ORLIC	WATER DI	SIRICI			CI DEAG	E WATER		100	
				CHITH		OVOTEN	SERVE								0	
		S				21216	SERVE	2:				MELLS	AND SPR	ING5	U	
		#s	195	POOLNIEL		05 017										
DAU #	• • • • • • • • •	•••••	כצו					OUTSIDE.				SOURCE O	F 114 TER	42		
												SOURCE O	F WATER	(in pe	rcent):	
	SUS POPUL							ΤΥ				DV (D.0114	050		100	
		2,050			OTHE	к	•••••	•••••		Х			SED		0	
1990	•••••	2,753			COVICE		7.1000	19				SELF S	OPPLIED		U	
					ERVICE	CONNECT	TONS	* -								
RESIDENT		0.700		COMMERCI		-		INDUSTRI			'	GOVERNME				
	d				d	93			d	0		Hetere		8		
Flat R	ate	0		Flat R	ate	0		Flat F	ate	0		Flat R	ate	0		
YEAR	ACTIVE				T	OTAL W	ATER IN	ITO SYSTE	M (MILL	ION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,381	1,381	4.0	5.0	4.0	5.0	6.0	9.0	11.0	12.0	8.0	8.0	4.0	5.0	81.0	
1981	1,501	1,501	5.0	5.0	5.0	6.0	8.0	12.0	14.0	14.0	9.0	6.0	5.0	4.0	93.0	
1982	1,595	1,595	6.0	5.0	5.0	6.0	10.0	11.0	11.0	14.0	10.0	7.0	5.0	7.0	97.0	
1983	1,656	1,656	5.0	5.0	5.0	5.0	9.0	11.0	14.0	14.0	10.0	7.0	6.0	5.0	96.0	
1984	1,742	1,742	5.0	5.0	6.0	7.0	11.0	12.0	16.0	15.0	12.0	8.0	6.0	7.0	110.0	
1985	1,819	1,819	6.0	6.0	6.0	8.0	12.0	13.0	18.0	16.0	11.0	9.0	7.0	6.0	118.0	
1986	1,877	1,877	6.0	6.0	6.0	8.0	12.0	16.0	18.0	19.0	12.0	10.0	9.0	8.0	130.0	
1987	2,047	2,047	10.0	7.0	7.0	11.0	14.0	16.0	20.0	21.0	16.0	13.0	8.0	9.0	152.0	
1988	2,116	2,116	8.0	8.0	9.0	10.0	11.0	12.0	15.0	14.0	12.0	10.0	8.0	9.0	126.0	
1989	2,284	2,284	8.0	11.0	7.0	9.0	11.0	15.0	20.0	20.0	11.0	15.0	9.0	10.0	146.0	
1990	2,480	2,480	8.0	8.0	9.0	12.0	12.0	11.0	15.0	14.0	12.0	10.0	8.0	14.0	133.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WATE	R USE	(gpca)/:	•				WHUALLY	
OF	CONNEC-	TION								****	050	007	11014	250	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	1.48	2,050	63	84	63	81	94	146	173	189	130	126	65	79	108	0.121
1981	1.45	2,172	74	82	74	92	119	184	208	208	138	89	77	59	117	0.131
1982	1.41	2,248	86	79	72	89	143	163	158	201	148	100	74	100	118	0.132
1983	1.37	2,272	71	79	71	73	128	161	199	199	147	99	88	71	116	0.130
1984	1.33	2,325	69	74	83	100	153	172	222	208	172	111	86	97	130	0.145
1985	1.30	2,360	82	91	82	113	164	184	246	219	155	123	99	82	137	0.153
1986	1.26	2,365	82	91	82	113	164	226	246	259	169	136	127	109	151	0.169
1987	1.22	2,502	129	100	90	147	180	213	258	271	213	168	107	116	166	0.186
1988	1.18	2,507	103	110	116	133	142	160	193	180	160	129	106	116	138	0.154
1989	1.15	2,621	98	150	86	114	135	191	246	246	140	185	114	123	153	0.171
1990	1.11	2,753	94	104	105	145	141	133	176	164	145	117	97	164	132	0.148

^{1/} Number of services

AVERAGE

211

126

95 102 133 0.149

87 95 84 109 142 176

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

²¹³ 3/ gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	TUOLUMNE							NE UTILIT		STRICT	1	ORIGIN (OF WATER	(in po	ercent):	
	SONORA			TYPE OF	AGENCY.	F	UBLIC	WATER DI	STRICT							
													CE WATER		100	
		l				SYSTE	SERV	ES:				WELLS	AND SPE	RINGS	0	
		#		FOOTNIL												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	195					• • • • • • • •								
								OUTSIDE.		Х		SOURCE (OF WATER	(in pe	ercent):	
	SUS POPUL							ΙΤΥ								
	• • • • • • • • •	•			OTHE	R	•••••	• • • • • • • • • • • • • • • • • • • •	•••••				ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	4,153										SELF S	SUPPLIED	·····	100	-0
					SERVICE	CONNECT	IONS									
RESIDENT				COMMERC				INDUSTRI	AL:			GOVERNM	ENTAL:			
Metere	d	1,902		Meter	ed	609		Metere	d	0		Meter	ed	25		
Flat R	ate	. 0		Flat I	Rate	0		Flat R	ate	0		Flat I	Rate	0		
YEAR	ACTIVE	SERVICE			1	TOTAL W	TER II	NTO SYSTE	M (MILL	ION GAI	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,012	1,955	20.0	19.0	20.0	25.0	32.0	49.0	62.0	64.0	51.0	45.0	31.0	21.0	439.0	
1981	2,030	1,959	18.0	18.0	18.0	25.0	20.0	32.0	70.0	67.0	55.0	32.0	24.0	28.0	407.0	
1982	2,030	1,959	23.0	24.0	26.0	30.0	59.0	68.0	78.0	80.0	53.0	38.0	32.0	34.0	545.0	
1983	2,030	1,959	29.0	27.0	29.0	28.0	43.0	67.0	69.0	71.0	48.0	38.0	28.0	28.0	505.0	
1984	2,029	1,972	23.0	16.0	20.0	24.0	41.0	47.0	65.0	59.0	48.0	27.0	21.0	20.0	411.0	
1985	2,082	2,014	15.0	15.0	15.0	25.0	44.0	53.0	63.0	57.0	33.0	28.0	20.0	19.0	387.0	
1986	2,135	2,057	24.0	21.0	25.0	29.0	39.0	53.0	58.0	61.0	47.0	39.0	34.0	27.0	457.0	
1987	2,188	2,099	23.0	20.0	23.0	35.0	46.0	55.0	62.0	63.0	53.0	46.0	29.0	28.0	483.0	,
1988	2,241	2,141	26.0	25.0	31.0	30.0	32.0	47.0	63.0	62.0	55.0	46.0	33.0	30.0	480.0	
1989	2,389	2,289	28.0	25.0	26.0	33.0	44.0	55.0	69.0	65.0	53.0	43.0	37.0	32.0	510.0	
1990	2,536	2,436	28.0	29.0	31.0	37.0	46.0	50.0	68.0	67.0	55.0	51.0	37.0	39.0	538.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CA	ITA WATE	R USE (apped)/3					NNUALLY	
OF	CONNEC-	TION				·				Specific		-			gpcd	afpo
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	1.66	3,342	193	196	193	249	309	489	599	618	509	434	309	203	360	0.40
1981	1.67	3,380	172	190	172	247	191	316	668	639	542	305	237	267	330	0.36
1982	1.67	3,389	219	253	247	295	562	669	742	761	521	362	315	324	441	0.49
1983	1.67	3,398	275	284	275	275	408	657	655	674	471	361	275	266	407	0.45
1984	1.68	3,406	218	162	189	235	388	460	616	559	470	256	206	189	331	0.37
1985	1.68	3,504	138	153	138	238	405	504	580	525	314	258	190	175	303	0.33
1986	1.69	3,602	215	208	224	268	349	490	519	546	435	349	315	242	348	0.38
1987	1.69	3,701	200	193	200	315	401	495	540	549	477	401	261	244	358	0.40
	1.70	3,801	221	227	263	263	272	412	535	526	482	390	289	255	346	0.38
1988	1.70	4,062	222	220	206	271	349	451	548	516	435	341	304	254	344	0.38
1988 1989	1.10												105			
	1.70	4,323	209	240	231	285	343	385	507	500	424	381	285	-291	341	0.38

^{1/} Number of services
3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	SAN JOAQU	IN	1	HATER A	ENCY		SCALON,	CITY O	F		(ORIGIN C	F WATER	(in pa	ercent):	
	ESCALON			TYPE OF	AGENCY.		MUNICIPA	L WATER	DEPART	MENT						
SYSTEM #			39003									SURFAC	E WATER		0	
HYDROLOG	IC REGION	9	NAOL NAS	MIN		SYSTE	4 SERVES	S:				WELLS	AND SPR	INGS	100	
LANNING	SUBAREA	#\	ALLEY I	EAST SIE	E											
AU #			205		ENTI	RE CITY	ſ			Х						
					ENTI	RE CITY	PLUS C	UTSIDE.			1	SOURCE (OF WATER	(in pe	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γ								
1980		3,127			OTHE	R						PURCH/	ISED		0	
1990		4,437										SELF S	SUPPLIED		100	
					SERVICE	CONNECT	TIONS /	/1								
ESIDENT	IAL:			COMMERC	IAL:		1	INDUSTRI	AL:		-	GOVERNME	NTAL:			
Hetere	d	1,151		Meter	ed	54		Metere	d	NA			ed	5		
Flat R	ate	303		Flat	Rate	10		Flat R	late	0		Flat F	Rate	0		
YEAR OF	ACTIVE	SERVICE TIONS /2			1	OTAL W	ATER INT	O SYSTE	M (MILL	.ION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	650	650	/5		-	-	-		-	-	-		-	-	-	
1981			-	-	-		-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983	700	700	-	-	-	18.0	31.0	44.0	29.0	52.0	42.0	30.0	22.0	14.0	-	
1984	1,121	1,121	12.0	11.0	18.0	25.0	38.0	38.0	45.0	40.0	34.0	23.0	15.0	15.0	314.0	
1985	1,168	1,168	15.0	15.0	16.0	24.0	29.0	34.0	44.0	37.0	34.0	33.0	25.0	16.0	322.0	
1986	1,234	1,234	15.0	16.0	18.0	30.0	39.0	52.0	56.0	47.0	36.0	29.0	23.0	21.0	382.0	
1987	1,309	1,309	19.0	19.0	19.0	33.0	41.0	49.0	46.0	46.0	40.0	28.0	16.0	15.0	371.0	
1988	1,326	1,326	12.0	21.0	28.0	26.0	33.0	45.0	51.0	52.0	42.0	33.0	18.0	16.0	382.0	
1989	1,383	1,383	16.0	15.0	17.0	30.0	45.0	51.0	57.0	51.0	33.0	29.0	20.0	17.0	381.0	
1990	1,450	1,450	17.0	16.0	21.0	34.0	41.0	43.0	60.0	54.0	45.0	38.0	25.0	21.0	420.0	
	PERSONS	AVERAGE			-							,				
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USE	(gpcd)/3	•			,	WHUALLY	.,
OF	CONNEC-	TION				400				A1.10			1100	050	gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	
1980	4.81	3,127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	4.64		-	-	-	-	-	-	-	-	-	-	-	-	•	-
1982	4.46		-	-	-	•	-	-	-	•	-	-	-	-	-	-
1983	4.29	3,000	-	-	-	200	333	489	312	559	467	323	244	151		-
1984	4.11	4,608	84	82	126	181	266	275	315	280	246	161	109	105	187	0.209
1985	3.94	4,597	105	117	112	174	204	247	309	260	247	232	181	112	192	0.215
1986	3.76	4,640	104	123	125	216	271	374	389	327	259	202	165	146	226	0.253
1987	3.59	4,693	131	145	131	234	282	348	316	316	284	192	114	103	217	0.243
1988	3.41	4,522	86	160	200	192	271	332	364	371	310	235	133	114	231	0.259
1989	3.24	4,474	115	120	123	224	324	380	411	368	246	209	149	123	233	0.261
1990	3.06	4,437	124	129	153	255	298	361	436	393	338	276	188	153	259	0.290
AVERAGE			107	125	138	209	281	351	357	359	299	229	160	126	221	0.247

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/}Missing data unavailable.

COUNTY	SAN JOAQU	IN		WATER A	GENCY		MANTECA	, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	MANTECA			TYPE OF	AGENCY		MUNICIE	AL WATE	R DEPAR	THENT						
SYSTEM #			39005									SURFA	CE WATER	R	0	
HYDROLOG	IC REGION		SAN JO	QUIN RI	VER	SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA :	#	VALLEY	EAST SI	DE											
DAU #			205		ENT	IRE CIT	γ			х						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	ITY								
1980		25,125										PURCH	ASED		0	
		-			•								SUPPLIE		100	
.,,,,,,,,		,,			SERVICE	CONNEC	TIONS	/1							100	
RESIDENT	TAI -			COMMERC				INDUSTR	TAL -			GOVERNM	ENTAL -			
	d	8,362			ed	491			ed	49			ed	NA		
	ate	0,502			Rate	0			Rate				Rate	0		
rtat K	atc	U		rtat	Kale	0		rtat	Kale	U		rtat	Rate	U		
YEAR	ACTIVE :					TOTAL W	ATER I	NTO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	MAL	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,996	6.996	85.0	59.0	82.0	155.0	188.0	217.0	278.0	248.0	225.0	172.0	114.0	91.0	1914.0	
1981	7,160	7,160	62.0	92.0		150.0					224.0	186.0	99.0	72.0	2062.0	
1982	7,309	7,309	81.0	76.0				301.0			181.0		69.0		2050.0	
1983	7,678	7,678	74.0	91.0	52.0		214.0	353.0			204.0		105.0	77.0		
1984	8,290	8.290	97.5	96.3		226.2						146.5	107.2		2653.0	
1985	8,961	8,961	102.5	118.5				334.5			276.0	215.0	135.0	100.1	2816.4	
1986	9,169	9,169	107.0	98.0				403.0				216.0		136.0		
1987	9,423	•	123.0	118.0		279.0					336.0					
1988	9,423	9,423	80.0	202.0				305.0					149.0	129.0 147.0	3057.0	
		•														
1989	10,104	10,104	148.0	126.0				394.0					179.0	135.0		
1990	10,367	10,367	156.0	132.0	190.0	219.0	413.0	341.0	402.0	3/9.0	347.0	201.0	202.0	167.0	3299.0	_
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION											•		gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.59	25,125	109	81	105	206	241	288	357	318	299	221	151	117	209	0.234
1981	3.63	25,968	77	127	93	193	265	366	404	347	288	231	127	89	218	0.244
1982	3.66	26,768	98	101	119	147	280	375	372	371	225	215	86	118	210	0.235
1983	3.70	28,393	84	114	59	157	243	414	339	385	239	211	123	87	205	0.230
1984	3.73	30,950	102	107	161	244	341	339	417	359	364	153	115	104	235	0.263
1985	3.77	33,774	98	125	119	254	290	330	420	392	272	205	133	96	228	0.256
1986	3.80	34,883	99	100	126	224	292	385	390	324	291	200	202	126	230	0.258
1987	3.84	36,184	110	116	129	257	290	373	361	355	310	218	137	115	231	0.259
1988	3.88	37,581	69	185	187	192	264	271	310	335	284	241	60	126	211	0.237
1989	3.91	39,517	121	114	127	251	343	332	371	340	272	196	151	110	228	0.255
1990	3.95	40,914	125	115	155	227	327	278	317	299	283	222	165	132	221	0.247
	3.,,	10,713														
AVERAGE			99	117	125	214	289	341	369	348	284	210	132	111	221	0.247

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	STANISLAU	s		WATER A	GENCY		MODESTO	, CITY	OF & DE	L ESTE	w.co.	ORIGIN	OF WATE	R (in p	percent):	
CITY				TYPE OF												
												SURFA	CE WATE	R	. 0	
	IC REGION			NIUDA		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	100	
	SUBAREA				DE											
						IRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		. х		SOURCE	OF WATE	R (in p	percent):	
TTY CEN	SUS POPUL	ATION			POR	TION OF	THE C	ιτγ								
					ОТН	ER						PURCH	ASED		. NA	
												SELF	SUPPLIE	D	. NA	
.,,,,,,		,			SERVICE	CONNEC	TIONS	/1								
ESIDENT	TAL:			COMMERC				INDUST	RIAL:			GOVERNI	ENTAL:			
	d	NA			ed	. NA		Meter	red	. NA		Meter	ed	NA		
	ate				Rate				Rate				Rate			
YEAR	ACTIVE	SERVICE				TOTAL V	ATER II	NTO SYS	TEN (MII	LION G	ALLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	35,175														13962.0	
1981	36,565														14797.0	
1982	37,763														13622.0	
1983	37,998														14898.0	
1984	43,231	36,558	680.0	623.0	1029.0	1365.0	1968.0	2057.0	2329.0	2219.0	1951.0	1244.0	803.0	715.0	16983.0	
1985	48,464														16790.0	
1986	50,521	48,014	683.0	626.0	842.0	1289.0	1793.0	2126.0	2366.0	2285.0	1715.0	1411.0	1101.0	852.0	17089.0	
1987	51,048														18789.0	
1988	51,575	49,068	890.0	1060.0	1484.0	1406.0	1798.0	2132.0	2778.0	2437.0	2138.0	1743.0	925.0	946.0	19737.0	
1989	52,506	49,773	897.0	816.0	985.0	1612.0	2074.0	2338.0	2798.0	2719.0	1304.0	1738.0	1307.0	1068.0	19656.0	
1990	56,162	53,212	1027.0	900.0	1254.0	1643.0	1863.0	2039.0	2527.0	2540.0	2171.0	1141.0	1047.0	1812.0	19964.0	
	DEDOMIO	4150405														
YEAR	PERSUNS	AVERAGE POPULA-					DED CA	DITA UA	TER USE	(ancd)	ß				ANNUALLY	
OF	CONNEC-	TION					TER UN		LE USE	(Short)	, -				gpcd	efp
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
	IION															
1980		111,311	166		203		400	480	509	610	438	355	260	196	344	0.3
1981		115,841	193		186		435						184	170		0.3
1982		119,772											189	169		0.3
1983		120,654	167										239	208		0.3
1984		137,425	160										195	168		0.3
1985		154,234	150										190	157		0.3
1986		160,962					-									0.3
1987		162,824	168													0.3
1988													187	185		0.3
		164,690		-												0.3
1989	3.20	•											194	325		0.3
1990	3.20	179,741	104	179	دی	303	334	310		730		200	134	ريد	304	
AVERAGE			167	174	201	293	390	468	521	512	415	306	210	193	322	0.3

1/Number of service connections unavailable.

3/ gpcd - gallons per capita daily

2/Excludes services for agriculture, fire hydrants,

4/ afpca - acre-feet per capita annually

	STANISLAU	IS			GENCY							ORIGIN (OF WATER	R (in p	ercent):	
	OAKDALE			TYPE OF	AGENCY.		MUNICIF	AL WATE	R DEPAR	TMENT						
													CE WATER		0	
						SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
		#		EAST SI												
OAU #	• • • • • • • • • • • • • • • • • • • •	•••••	206					•••••								
								OUTSIDE		Х		SOURCE (OF WATER	R (in p	ercent):	
	SUS POPUL							ΤΥ								
	• • • • • • • • • • • • • • • • • • • •	•			OTHE	R		•••••	• • • • • • •				ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	11,961										SELF :	SUPPL I EI	·····	100	
					SERVICE	CONNEC	TIONS	•								
ESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed	121			ed	23			ed	27		
Flat R	ate	. 0		Flat	Rate	28		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,000	3,000	41.5	31.5	39.7	57.0	76.2	95.4	112.4	107.0	83.8	67.6	52.0	38.1	802.2	
1981	3,100	3,100	33.7	30.1	33.3	59.8	88.8	118.0	123.5	110.6	85.7	51.4	37.6	33.5	806.0	
1982	3,200	3,200	31.9	28.8	32.7	54.9		100.2		107.4	65.0	49.0	31.4	31.2	738.3	
1983	3,360	3,360	32.7	26.3	27.6	43.6	72.9	104.8	105.5	106.0	79.6	60.1	33.3	38.8	731.2	
1984	3,423	3,423	39.6	38.7	54.8		104.0	115.8	134.0	122.0	106.0	62.0	43.0	42.0	926.7	
1985	3,575	3,532	42.0	42.0	46.0	78.0	109.0	127.0	136.0	123.0	88.0	76.0	49.0	43.0	959.0	
1986	3,683	3,635	43.0	39.0	50.0			122.0	138.0	127.0	84.0	78.0	67.0	50.0	980.0	
1987	3,825	3,777	49.0	45.0	54.0		116.0		128.0	126.0	107.0	81.0	48.0	48.0	1018.0	
1988	4,109	4,066	48.0	56.0	79.0	71.0		119.0	141.0	129.0	112.0	90.0	54.0	47.0	1045.0	
1989	4,437	4,387	47.0	49.0	51.0	88.0		124.0	150.0	133.0	96.0	77.0	63.0	57.0	1056.0	
1990	4,458	4,413	50.0	47.0	66.0	90.0	105.0			135.0	117.0	101.0	75.0		1110.0	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAD	ITA WAT	ED LICE	(aned) (7				ANNUALLY	
OF	CONNEC-	TION					r LR GA	AIA WAI	LK UJL	(Speci))	-	•			good	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/
1980	2.80	8,400	159	129	152	226	293	379	432	411	333	260	206	146	262	0.2
1981	2.79	8,652	126	124	124	230	331	455	460	412	330	192	145	125	255	0.2
1982	2.78	8,903	116	116	118	206	341	375	404	389	243	178	118	113	227	0.2
1983	2.77	9,318	113	101	96	156	252	375	365	367	285	208	119	134	215	0.2
	2.76	9,462	135	141	187	228	355	408	457	416	373	211	151	143	268	0.3
1984	2.76	9,850	138	152	151	264	357	430	445	403	298	249	166	141	267	0.2
	6.10		137	138	159	244	344	402	440	405	277	249	221	159	265	0.2
1984		10,114	137					392	394	388	341	250	153	148		
1984 1985	2.75	10,114 10,470	151	153	166	296	357		23.00					140	266	U. 2
1984 1985 1986 1987	2.75 2.74	10,470			166 227	296 211	357 285	354	406		333	259	161		255	
1984 1985 1986 1987 1988	2.75 2.74 2.73	10,470 11,211	151 138	172	227	211	285	354	406	371			161	135	255	0.2
1984 1985 1986 1987	2.75 2.74	10,470	151								333 265 323	259 206 270				0.2 0.2 0.2
1984 1985 1986 1987 1988 1989	2.75 2.74 2.73 2.72	10,470 11,211 12,066	151 138 126	172 145	227 136	211 243	285 323	354 343	406 401	371 356	265	206	161 174	135 152	255 240	0.2

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	STANISLAU				ENCY							ORIGIN	OF WATER	(in pe	rcent):	
	RIVERBANK			TYPE OF	AGENCY.		UNICIPA	L WATER	DEPART	MENT						
		• • • • • • • • • • • • • • • • • • • •											CE WATER		0	
						SYSTE	SERVES	S:				WELLS	AND SPR	INGS	100	
		#		EAST SIC												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	206													
								SUTSIDE.		X		SOURCE	OF WATER	(in pe	rcent):	
	SUS POPUL							η								
	• • • • • • • • • • • • • • • • • • • •				OTHE	R	• • • • • • •	• • • • • • •	•••••				ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	8,960										SELF	SUPPLIED		100	
					SERVICE	CONNECT										
RESIDENT		2 200		COMMERC!		455	1	INDUSTRI				GOVERNM		40		
	d				ed	155		Metere		1			ed	19		
Flat R	ate	0		Flat	Rate	0		Flat F	ate	0		Teli	Rate	0		
YEAR	ACTIVE	CEDVICE			,	OTAL 14	TED THE	O SYSTE	M (MILL	TON GAL	COME					
DF		TIONS /2			'	UIAL W	TICK IN	10 31318	n (nill	WIL	LURS)					
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
*FCOM	313164		ψ/M		mak	AFK				7000						
1980	1,500	1,500	/5		-		-		-	-		-	-	-	-	
1981	1,675	1,575	-	-	-		-	-	44.0	57.0	52.0	359.0	240.0	-	-	
1982	1,850	1,655	20.0	19.0	21.0	31.0	39.0	58.0	45.0	52.0	48.0	40.0	26.0	16.0	415.0	
1983	1,805	1,655	15.0	21.0	18.0	23.0	36.0	36.0	60.0	53.0	53.0	19.0	19.0	16.0	369.0	
1984	1,893	1,741	22.0	22.0	29.0	43.0	58.0	70.0	72.0	71.0	63.0	32.0	22.0	22.0	526.0	
1985	1,994	1,839	22.0	23.0	25.0	39.0	59.0	70.0	71.0	65.0	49.0	36.0	20.0	19.0	498.0	
1986	2,071	1,916	21.0	20.0	23.0	35.0	58.0	75.0	79.0	69.0	52.0	28.0	28.0	23.0	511.0	
1987	2,128	1,973	33.0	33.0	29.0	29.0	69.0	69.0	60.0	59.0	49.0	49.0	21.0	21.0	521.0	
1988	2,198	2,043	20.0	25.0	46.0	33.0	52.0	69.0	65.0	71.0	60.0	49.0	27.0	21.0	538.0	
1989	2,442	2,306	14.0	14.0	38.0	38.0	38.0	42.0	42.0	42.0	29.0	29.0	29.0	17.0	372.0	
1990	2,531	2,412	25.0	32.0	32.0	64.0	64.0	79.0	79.0	42.0	29.0	29.0	25.0	25.0	525.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	ITA WATE	R USE	(apcd)/3	3			1	UNNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.75	5,625												-		
1981	3.75	6,275				_			226	293	276	1,845	1,275			
1982	3.74	6,924	93	98	98	149	182	279	210	242	231	186	125	75	164	0.184
1983	3.74	6,750	72	111	86	114	172	178	287	253	262	91	94	76	150	0.168
1984	3.74	7,072	100	107	132	203	265	330	328	324	297	146	104	100	204	0.228
1985	3.73	7,442	95	110	108	175	256	314	308	282	219	156	90	82	183	0.205
1986	3.73	7,722	88	92	96	151	242	324	330	288	224	117	121	96	181	0.203
1987	3.73	7,928	134	149	118	122	281	290	244	240	206	199	88	85	180	0.202
1988	3.72	8,181	79	105	181	134	205	281	256	280	244	193	110	83	180	0.202
1989	3.72	9,080	50	55	135	139	135	154	149	149	106	103	106	60	112	0.126
1990	3.71	9,402	86	122	110	227	220	280	271	144	103	99	89	86	153	0.171
			89	106	118	157	217	270	261	250	217	314	220	83	168	0.188

^{1/} Number of services

2/ Excludes services for agriculture, fire hydrants,
fire protection, and other agencies.

3/ gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually

COUNTY	STANISLAL	IS		WATER A	GENCY		CERES,	CITY OF				ORIGIN	OF WATE	R (in p	ercent):	
CITY				TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPAR	THENT						
		•••••											CE WATE		0	
						SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#		EAST SI												
DAU #		•••••	208					• • • • • • • •								
								OUTSIDE		х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL							ΤΥ								
	•••••	-			OTH	ER	• • • • • • • •	• • • • • • • •	• • • • • • •				ASED		0	
1990		26,314										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC		/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d				ed	365		Meter	ed	57		Meter	ed	NA		
Flat R	ate	5,771		Flat	Rate	241		Flat	Rate	0		Flat	Rate	1		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	LAM	EEC	MAD	400	MAY			A1 10	CCD	007	NO.	DEC	ANIAH (**	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	4,508	4,508	32.0	32.0	40.0	52.0	103.0	120.0	137.0	125.0	94.0	74.0	44.0	50.0	903.0	
1981	4,307	4,307	37.0	40.0	56.0	85.0	130.0	171.0	176.0	128.0	111.0	84.0	48.0	45.0	1111.0	
1982	4,644	4,644	35.0	46.0	62.0	63.0	118.0	166.0	169.0	173.0	120.0	90.0	58.0	54.0	1154.0	
1983	4,566	4,566	57.0	51.0	53.0	73.0	149.0	179.0	185.0	209.0	149.0	95.0	62.0	56.0	1318.0	
1984	4,720	4,720	61.0	56.0	84.0	130.0	180.0	178.0	195.0	207.0	170.0	103.0	74.0	63.0	1501.0	
1985	5,041	5,041	63.0	50.0	64.0	118.0	170.0	181.0	240.0	203.0	159.0	125.0	71.0	74.0	1518.0	
1986	5,336	5,336	63.0	59.0	80.0	129.0	209.0	215.0	241.0	216.0	180.0	131.0	107.0	85.0	1715.0	
1987	5,547	5,547	79.0	74.0	78.0	159.0	208.0	251.0	182.0	209.0	178.0	159.0	92.0	80.0	1749.0	
1988	6,255	6,165	75.0	93.0	195.0	131.0	160.0	204.0	243.0	258.0	205.0	162.0	109.0	79.0	1914.0	
1989	6,460	6,377	88.0	75.0	110.0	147.0	189.0	232.0	275.0	251.0	188.0	160.0	129.0	97.0	1941.0	
1990	6,772	6,651	52.0	84.0	117.0	186.0	203.0	203.0	284.0	275.0	233.0	227.0	128.0	106.0	2098.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000	2 00	47 201				474	250	704		701	27/	400	440	424	40/	0.200
1980	2.95	13,281	78	83	97	131	250	301	333	304	236	180	110	121	186	0.209
1981	3.05	13,124	91	109	138	216	320	434	433	315	282	206	122	111	232	0.260
1982	3.15	14,620	77	112	137	144	260	378	373	382	274	199	132	119	216	0.242
1983	3.25	14,836	124	123	115	164	324	402	402	454	335	207	139	122	243	0.273
1984	3.35	15,813	124	122	171	274	367	375	398	422	358	210	156	129	260	0.291
1985	3.45	17,398	117	103	119	226	315	347	445	376	305	232	136	137	239	0.268
1986	3.55	18,955	107	111	136	227	356	378	410	368	317	223	188	145	248	0.278
1987	3.65	20,265	126	130	124	262	331	413	290	333	293	253	151	127	236	0.265
1988	3.75	23,483	103	137	268	186	220	290	334	354	291	223	155	109	223	0.250
1989	3.86	24,906	114	108	142	197	245	311	356	325	252	207	173	126	214	0.239
1990	3.96	26,793	63	112	141	231	244	253	342	331	290	273	159	128	215	0.240
AVERAGE			102	114	144	205	294	353	374	360	294	219	147	125	228	0.256

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

COUNTY	STANISLAU	S		WATER A	GENCY		TURLOCK	, CITY	OF		1	ORIGIN	OF WATE	R (in p	ercent):	
CITY	TURLOCK			TYPE OF	AGENCY.		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #			50019									SURFA	CE WATE	R	0	
HYDROLOG	C REGION		SAN JOA	QUIN RI	VER	SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA :	£	VALLEY	EAST SI	DE											
DAU #		• • • • • • • • • • • • • • • • • • • •	208				γ									
							Y PLUS			Х		SOURCE	OF WATE	K (In p	ercent):	
	SUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •				ОТН	ER	• • • • • • •		• • • • • • • • • • • • • • • • • • • •				ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	42,198										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC			7.81 -			GOVERNM	ENTAL -			
RESIDENT		471		COMMERC		740		INDUSTR		2/			ed	20		
	d	134			ed	319			ed	26						
Flat R	ate	9,926		TBJ1	Rate	438		rtat	Rate	0		rtat	Rate	- "		
YEAR	ACTIVE	SERVICE			,	TOTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF		TIONS /2													******	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	8,072	7.852	148.0	132.0	116.0	223.0	290.0	392.0	446.0	387.0	396.0	280.0	251.0	155.0	3216.0	
1981	8,390	8.090	165.0	131.0	149.0		379.0				651.0		126.0		3855.0	
1982	8,514	8,314	162.0	149.0					493.0				157.0	149.0	3149.0	
1983	7,821	7,694	149.0	128.0			325.0				331.0		174.0	171.0	3248.0	
1984	8,216	8.086	213.0	141.0			414.0			419.0			171.0	269.0	3907.0	
1985	8,497	8,356	251.0	191.0	201.0		440.0	507.0	526.0		397.0	284.0	267.0	156.0	4060.0	
1986	8,497	8,285	155.0	120.0	155.0				441.0				294.0		3736.0	
1987	8,879	8.879	201.0	237.0	208.0	300.0	334.0	542.0	528.0		429.0		230.0		4118.0	
1988	9.746	9,604	191.0	240.0										218.0	4459.0	
1989	10,104	9,971	238.0	206.0					557.0						4710.0	
1990	10,873				370.0									301.0	5019.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.35	27,028	177	168	138	275	346	483	532	462	488	334	310	185	326	0.365
1981	3.41	28,586	186	164	168	351	428	594	529	597	759	327	147	176	369	0.414
1982	3.47	29,510	177	180	172	250	353	437	539	407	346	298	177	163	292	0.327
1983	3.52	27,569	174	166	170	255	380	473	587	535	400	309	210	200	323	0.362
1984	3.58	29,445	233	165	248	363	454	521	553	459	582	278	194	295	364	0.407
1985	3.64	30,952	262	220	209	414	459	546	548	475	428	296	288	163	359	0.402
1986	3.70	31,452	159	136	159	259	337	443	452	644	410	368	312	211	325	0.364
1987	3.76	33,389	194	254	201	299	323	541	510	518	428	335	230	218	338	0.378
1988	3.82	37,223	166	222	287	277	340	426	454	486	422	360	296	189	328	0.368
1989	. 3.88	39,186	196	188	184	324	361	573	459	478	379	305	275	223	329	0.369
1990	3.94	42,808	171	191	279	317	356	380	483	435	375	349	282	227	321	0.360

^{1/} Number of services 3/ gpcd - gallons per capita daily 2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY								MADERA				ORIGIN	OF WATE	R (in p	ercent):	
CITY				TYPE OF	AGENCY		MUNICIP	PAL WATE	R DEPT.						-	
													CE WATE			
						SYSTE	M SERVE	ES:				WELLS	AND SP	RINGS	50	
		#		EAST SI												
DAU #		• • • • • • • • •	213							X						
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							ITY								
	• • • • • • • • • • • • • • • • • • • •	•			OTH	ER	• • • • • • •	• • • • • • • •	• • • • • • •				ASED			
1990	• • • • • • • • • • • • • • • • • • • •	29,400										SELF	SUPPLIE	D	0	
					SERVICE	CONNEC	TIONS									
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	19		Heter	ed	105		Meter	ed	12		Meter	ed	6		
Flat R	ate	7,759		Flat	Rate	685		Flat	Rate	24		Flat	Rate	60		
YEAR	ACTIVE					TOTAL W	ATER IN	NTO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	НАҮ	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	7,040	7,040	51.0	75.0	74.0	81.0	105.0	210.0	229.0	181.0	226.0	186.0	120.0	124.0	1662.0	
1981	7,254	7,254	124.0	84.0	72.0	129.0	304.0	359.0	475.0	346.0	206.0	206.0	104.0	102.0	2511.0	
1982	7,589	7,589	87.0	78.0	94.0	148.0	232.0	278.0	324.0	353.0	226.0	142.0	90.0	89.0	2141.0	
1983	7,637	7,637	86.0	84.0	80.0	89.0	304.0	222.0	257.0	278.0	238.0	196.0	98.0	87.0	2019.0	
1984	7,685	7,685	92.0	89.0	91.0	88.0	194.0	200.0	239.0	194.0	216.0	171.0	170.0	129.0	1873.0	
1985	7,734	7,734	108.0	193.0	254.0	243.0	279.0	266.0	289.0	270.0	210.0	160.0	159.0	131.0	2562.0	
1986	7,739	7,739	105.0	161.0	179.0	189.0	191.0	280.0	248.0	269.0	350.0	171.0	170.0	140.0	2453.0	
1987	7.744	7.744	190.0	153.0	180.0	200.0	219.0	291.0			250.0	171.0			2509.0	
1988	7,750	7.750	140.0	111.0	156.0			275.0		483.0	571.0	174.0	177.0	311.0	3668.0	
1989	7.782	7.782	83.0	90.0	70.0	81.0				457.0		510.0			3425.0	
1990	7,790	7,790	155.0	160.0	236.0	144.0	236.0	491.0	488.0	497.0	311.0	319.0	214.0	144.0	3395.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DED CAD	PITA WAT	ED INCE	(ancd) (3				ANNUALLY	
OF	CONNEC-	TION					FER GAP	TIN MAI	CK USE	(gpcu))	,	~			gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.00	21,100	78	123	113	128	161	332	350	277	357	284	190	190	216	0.242
1981	3.07	22,305	179	134	104	193	440	537	687	500	308	298	155	148	308	0.345
1982	3.15	23,925	117	116	127	206	313	387	437	476	315	191	125	120	245	0.275
1983	3.23	24,669	112	122	105	120	398	300	336	364	322	256	132	114	224	0.251
1984	3.31	25,421	117	121	115	115	246	262	303	246	283	217	223	164	202	0.226
1985	3.39	26,184	133	263	313	309	344	339	356	333	267	197	202	161	268	0.300
1986	3.46	26,803	126	215	215	235	230	348	298	324	435	206	211	168	251	0.281
1987	3.54	27,421	224	199	212	243	258	354	292	348	304	201	207	166	251	0.281
1988	3.62	28,045	161	136	179	437	380	327	658	556	679	200	210	358	358	0.401
1989	3.70	28,765	93	112	78	94	224	307	624	512	513	572	369	395	326	0.365
	3.77	29,400	170	194	259	163	259	557	535	545	353	350	243	158	316	0.354
1990																

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	MERCED			WATER A						******		ORIGIN	OF WATE	R (in p	ercent):	
	MERCED			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
	f												CE WATE		0	
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
	SUBAREA			EAST SI												
DAU #	• • • • • • • • • • • • • • • • • • • •	•••••	210					• • • • • • •								
								OUTSIDE		Х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL							ΤΥ								
	• • • • • • • • • • • • • • • • • • • •	•			ОТН	ER	• • • • • • •	•••••	• • • • • • •				ASED		0	
1990		56,216						_				SELF	SUPPLIE	D	100	
					SERVICE	CONNEC		-								
RESIDENT				COMMERC				INDUSTR				GOVERNM				
Metere	d	151			ed	-			ed				ed	-		
Flat R	ate	1,160		Flat	Rate	0		Flat	Rate	0		Flat	Rate	7		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
1980	11,256	10,130	170.0	164.0	206.0	322.0	446.0	567.0	703.0	705.0	540.0	385.0	267.0	203.0	4678.0	
1981	11,291	10,162	208.0	171.0	199.0	445.0	631.0	774.0	945.0	856.0	754.0	400.0	235.0	178.0	5796.0	
1982	11,325	10,193	188.0	205.0	223.0	308.0	630.0	723.0	909.0	948.0	618.0	431.0	245.0	240.0	5668.0	
1983	11,405	10,265	227.0	196.0	218.0	274.0	503.0	742.0	899.0	911.0	688.0	405.0	248.0	229.0	5540.0	
1984	11,700	10,530	238.0	225.0	375.0	487.0	748.0	807.0	996.0	920.0	720.0	389.0	220.0	216.0	6341.0	
1985	12,605	11,345	203.0	209.0	248.0	399.0	564.0	684.0	804.0	748.0	576.0	400.0	219.0	219.0	5273.0	
1986	12,983	11,695	217.0	200.0	263.0	391.0	610.0	792.0	869.0	835.0	579.0	357.0	274.0	238.0	5625.0	
1987	13,025	11,708	208.0	196.0	217.0	412.0	550.0	620.0	652.0	662.0	529.0	380.0	213.0	211.0	4850.0	
1988	13,680	14,224	219.0	265.0	341.0	345.0	471.0	577.0	791.0	709.0	600.0	456.0	287.0	239.0	5300.0	
1989	14,340	14,343	239.0	220.0	259.0	428.0	575.0	603.0	850.0	790.0	539.0	361.0	276.0	250.0	5390.0	
1990	15,000	14,462	232.0	237.0	327.0	450.0	532.0	644.0	785.0	657.0	514.0	418.0	291.0	257.0	5344.0	
								-								
WEAR	PERSONS	AVERAGE POPULA-					DED CAT	PITA WAT	ED LICE	(anod)	rz.				ANNUALLY	
YEAR OF	CONNEC-	TION					PER UN	AIN MAI	EK USE	(Speci)	3				gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
	11UN		0.00													
1980	3.65	41,113	133	138	162	261	350	460	552	553	438	302	216	159	312	0.349
1981	3.68	41,505	162	147	155	357	490	622	734	665	606	311	189	138	383	0.428
1982	3.70	41,896	145	175	172	245	485	575	700	730	492	332	195	185	371	0.415
1983	3.72	42,460	172	165	166	215	382	583	683	692	540	308	195	174	357	0.400
1984	3.75	43,833	175	177	276	370	550	614	733	677	548	286	167	159	396	0.444
1985	3.77	47,519	138	157	168	280	383	480	546	508	404	272	154	149	304	0.341
1986		49,248	142	145	172	265	400	536	569	547	392	234	185	156	313	0.350
1987	3.82	49,713	135	141	141	276	357	416	423	430	355	247	143	137	267	0.299
1988		52,534	134	174	209	219	289	366	486	435	381	280	182	147	276	0.310
1989	3.86	55,405	139	142	151	257	335	363	495	460	324	210	166	146	267	0.299
1990		58,307	128	145	181	257	294	368	434	363	294	231	166	142	251	0.281
AVERAGE			146	155	177	273	392	489	578	551	434	274	178	154	318	0.356

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	STANISLAL	S						CITY OF				ORIGIN (OF WATER	(in pe	ercent):	
	NEWMAN			TYPE OF	AGENCY.		4UNICIP	AL WATER	DEPART	MENT						
		•••••											E WATER		0	
						SYSTE	SERVE	s:				WELLS	AND SPE	INGS	100	
		#		EAST SI												
DAU #	•••••	•••••	216					•••••								
								OUTS IDE.		х		SOURCE (OF WATER	(in pe	ercent):	
	ISUS POPUL				PORT	ION OF	THE CI	ΤΥ	•••••							
	•••••	•			OTHE	R	•••••	•••••	• • • • • • •			PURCH	ASED	•••••	0	
1990	• • • • • • • • • • • • • • • • • • • •	4,151										SELF S	SUPPL I EI		100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNM	ENTAL:			
Metere	d	1,373		Heter	ed	111		Hetere	d	4			ed	NA		
Flat R	ate	0		Flat	Rate	0		Flat F	late	0		Flat I	Rate	NA		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER IN	TO SYSTE	M (MILI	ION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	HAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1000	~′	044	44.6	10.0	47.0	4/ 6	3/ 6	27.6	77.0	7/ 0	2/ 6	40.6	4/ 6	47.6	97/ 6	•••••
1980 1981	966 1,030	961 1,025	11.0 13.0	10.0 13.0	13.0 22.0	14.0 19.0	24.0	27.0 34.0	33.0 36.0	34.0 33.0	24.0	19.0	14.0	13.0	236.0	
		•									20.0	16.0	12.0	9.0	255.0	
1982	1,088	1,088	7.0	7.0	10.0	14.0	28.0	28.0	34.0	33.0	15.0	17.0	13.0	11.0	217.0	
1983	1,088	1,088	10.0	13.0	10.0	20.0	21.0	32.0	38.0	29.0	25.0	18.0	14.0	10.0	240.0	
1984	1,090	1,090	10.0	10.0	25.0	29.0	28.0	37.0	40.0	40.0	24.0	20.0	19.0	13.0	295.0	
1985	1,100	1,100	9.0	15.0	11.0	26.0	34.0	38.0	44.0	42.0	32.0	24.0	17.0	15.0	307.0	
1986	1,100	1,100	13.0	14.0	18.0	24.0	37.0	46.0	43.0	38.0	38.0	20.0	14.0	16.0	321.0	
1987	1,143	1,143	15.0	14.0	20.0	28.0	33.0	40.0	43.0	38.0	38.0	20.0	14.0	16.0	319.0	
1988	1,137	1,137	12.0	18.0	27.0	20.0	31.0	36.0	37.0	39.0	38.0	27.0	19.0	18.0	322.0	
1989	1,287	1,287	15.0	14.0	20.0	31.0	39.0	32.0	32.0	35.0	20.0	29.0	25.0	20.0	312.0	
1990	1,399	1,399	18.0	18.0	14.0	34.0	40.0	45.0	50.0	55.0	38.0	38.0	27.0	22.0	399.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				-	PER CAP	ITA WATE	R USE	(gpcd)/3	3				WHUALLY	
OF	CONNEC-	TION										•			gpcd	afpo
ECORD	TION	SERVED	MAL	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.02	2,915	122	118	144	160	266	309	365	376	274	210	160	144	222	0.24
1981	3.01	3,103	135	150	229	204	291	365	374	343	215	166	129	94	225	0.25
1982	3.01	3,272	69	76	99	143	276	285	335	325	153	168	132	108	182	0.20
1983	3.00	3,267	99	142	99	204	207	327	375	286	255	178	143	99	201	0.22
1984	3.00	3,267	99	106	247	296	276	377	395	395	245	197	194	128	247	0.27
1985	2.99	3,292	88	163	108	263	333	385	431	412	324	235	172	147	256	0.28
1986	2.99	3,286	128	152	177	243	363	467	422	373	385	196	142	157	268	0.30
1987	2.98	3,409	142	147	189	274	312	391	407	360	372	189	137	151	256	0.28
1988	2.98	3,385	114	183	257	197	295	354	353	372	374	257	187	172	261	0.29
1989	2.97	3,825	126	131	169	270	329	279	270	295	174	245	218	169	223	0.25
1990	2.97	4,151	140	155	109	273	311	361	389	427	305	295	217	171	263	0.29
				138	166	230	296	355	374	360	280	212	166	140	237	
VERAGE			115	130	100	230	290	333	3/4	300	200	212	100	140	231	0.2

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	MERCED			MATER A	GENCY		OOS PALO	s, CITY	OF			ORIGIN (OF WATER	(in pe	ercent):	
CITY	DOS PALOS			TYPE OF	AGENCY.		UNICIPA	L WATER	DEPART	THENT						
SYSTEM #	f		24002									SURFAC	CE WATER		100	
HYDROLOG	IC REGION	9	SAN JOA	QUIN RI	/ER	SYSTE	SERVES	S:				WELLS	AND SPR	INGS	0	
PLANN ING	SUBAREA	#	VALLEY	WEST SI	DE											
DAU #			216		ENTI	RE CITY	/ .									
					ENT1	RE CITY	PLUS (UTSIDE.		х		SOURCE (OF WATER	(in pa	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE CIT	η								
1980		3,125			OTHE	R						PURCH	ASED		100	
1990		4,196										SELF S	SUPPLIED		0	
					SERVICE	CONNECT	TIONS /	/1								
RESIDENT	TAL:			COMMERC	IAL:		1	INDUSTRI	IAL:			GOVERNM	ENTAL:			
Metere	db	1,492		Meter	ed	100		Metere	ed	NA		Meter	ed	5		
Flat R	ate	. 0		Flat I	Rate	0		Flat F	Rate	0		Flat F	Rate	0		
YEAR		SERVICE			1	TOTAL W	ATER IN	O SYSTE	EM (MILI	LION GAI	LONS)					
OF		STIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,344	1,306	12.0	11.0	13.0	20.0	26.0	30.0	35.0	27.0	32.0	19.0	15.0	13.0	253.0	
1981	1,350	1,316	14.0	12.0	13.0	20.0	29.0	35.0	36.0	33.0	28.0	17.0	13.0	12.0	262.0	
1982	1,188	1,171	9.0	11.0	11.0	14.0	30.0	31.0	33.0	32.0	23.0	20.0	14.0	14.0	242.0	
1983	1,221	1,204	14.0	13.0	15.0	18.0	30.0	32.0	36.0	33.0	25.0	17.0	14.0	12.0	259.0	
1984	1,279	1,262	14.0	14.0	21.0	24.0	35.0	34.0	39.0	33.0	28.0	20.0	14.0	13.0	289.0	
1985	1,277	1,261	14.0	14.0	17.0	24.0	31.0	36.0	37.0	33.0	27.0	21.0	16.0	15.0	285.0	
1986	1,350	1,317	15.0	13.0	15.0	22.0	32.0	36.0	37.0	35.0	24.0	21.0	17.0	14.0	281.0	
1987	1,362	1,330	15.0	13.0	15.0	26.0	31.0	34.0	33.0	30.0	25.0	21.0	19.0	14.0	276.0	
1988	1,455	1,423	12.0	14.0	19.0	21.0	27.0	32.0	34.0	30.0	25.0	20.0	15.0	12.0	261.0	
1989	1,465	1,435	15.0	15.0	20.0	26.0	34.0	39.0	39.0	38.0	30.0	23.0	18.0	16.0	313.0	
1990	1,469	1,435	16.0	15.0	15.0	20.0	26.0	34.0	46.0	44.0	35.0	30.0	22.0	23.0	326.0	
	peneone	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	TTA WATE	ER LISE	(ancd)/					UNNUALLY	
OF	CONNEC-	TION								(30),					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
*****		7.24	420		470	207	2/4	744	754	271	332	191	155	130	214	0.241
1980 1981	2.39	3,216	120 137	118 130	130 127	207	261 283	311 353	351 352	322	283	166	131	117	216 217	0.241
1982	2.45	3,302	98	132	120	157	326	348	359	348	258	217	157	152	223	0.250
1983	2.55	3,116	145	149	155	193	311	342	373	342	267	176	150	124	228	0.255
1984	2.55	3,332	136	145	203	240	339	340	378	319	280	194	140	126	238	0.266
1985	2.66	3,395	133	147	162	236	295	353	352	314	265	200	157	143	230	0.258
1986	2.71	3,661	132	127	132	200	282	328	326	308	219	185	155	123	210	0.236
1987	2.76	3,765	129	123	129	230	266	301	283	257	221	180	168	120	201	0.225
1988	2.82	4,100	94	118	149	171	212	260	268	236	203	157	122	94	174	0.195
1989	2.87	4,100	115	127	153	206	261	309	299	291	238	176	143	123	204	0.173
1990	2.92	4,295	120	125	113	155	195	264	345	330	272	225	171	173	208	0.233
1770	6.72	7,273	120			,,,,	.,,	LUT	543	330	2,2			5	200	3.233
AVERAGE			124	131	143	200	275	319	335	304	258	188	150	130	214	0.239

^{1/} Number of services 3/ gpcd - gallons per capite daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	MERCED				ENCY						(ORIGIN O	F WATER	(in p	ercent):	
	GUSTINE			YPE OF	AGENCY.		UNICIPA	L WATER	DEPART	MENT						
													E WATER		0	
		۱			-	STSTEM	SERVES	:				WELLS	AND SPR	INGS	100	
		#v		EST SID												
DAU #	• • • • • • • •	•••••	216													
	0110 D00111						PLUS O			Х		SOURCE O	F WATER	(in p	ercent):	
	SUS POPUL						THE CIT									
	• • • • • • • • • • • • • • • • • • • •	-			OTHE	R	•••••	• • • • • • •	•••••				SED		0	
1990	• • • • • • • • • • • • • • • • • • • •	3,931										SELF S	UPPL IED	•••••	100	
FOIDFUT	***				ERVICE	CONNECT										
RESIDENT		45		COMMERCI			1	NDUSTRI.			(COVERNME				
	d				d	190		Metere		0		Metere		0		
Flat R	ate	4,617		Flat R	ate	246		Flat R	ate	13		Flat R	ate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL WA	TER INT	O SYSTE	M (MILL	ION GALL	ONS)					
OF	CONNEC	TIONS 3/														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1190	1184	13	12	16	24	34	37	43	45	34	26	19	15	318.0	
1981	1290	1283	14	11	13	29	35	38	47	42	34	22	14	12	311.0	
1982	1301	1294	12	12	13	18	35	38	48	43	31	22	14	12	298.0	
1983	1187	1178	13	12	13	17	33	44	44	39	30	21	14	14	294.0	
1984	1204	1195	13	12	15	22	37	45	47	43	31	19	14	13	311.0	
1985	1212	1205	13	13	17	29	40	42	47	43	32	19	14	13	322.0	
1986	/5														-	
1987	1279	1272	11	8	18	27	20	30	31	26	13	9	9	4	206.0	
1988	1337	1330	14	17	25	25	34	41	51	44	38	30	19	15	353.0	
1989	1395	1388	14	14	18	30	39	44	50	48	33	35	32	17	374.0	
1990	1410	1403	15	13	21	31	40	46	58	53	40	34	22	20	393.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				P	ER CAPI	TA WATE	R USE (gpcd)/3					UNNUALLY	
OF	CONNEC-	TION								9,		~		·	gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.62	3,116	135	133	166	257	352	396	445	466	364	269	203	155	280	0.31
1981	2.64	3,401	133	116	123	284	332	372	446	398	333	209	137	114	251	0.2
1982	2.65	3,454	112	124	121	174	327	367	448	402	299	205	135	112	236	0.2
1983	2.67	3,173	132	135	132	179	335	462	447	396	315	213	147	142	254	0.28
1984	2.69	3,241	129	128	149	226	368	463	468	428	319	189	144	129	263	0.29
1985	2.71	3,285	128	141	167	294	393	426	462	422	325	187	142	128	269	0.30
1986	2.73		-	-	-	-		-	-	-	-	-	-	-	-	
1987	2.75	3,513	101	81	165	256	184	285	285	239	123	83	85	37	161	0.18
1988	2.77	3,697	122	159	218	225	297	370	445	384	343	262	171	131	262	0.29
1989	2.78	3,883	116	129	150	258	324	378	415	399	283	291	275	141	264	0,25
	2.80	3,951	122	118	171	262	327	388	474	433	338	278	186	163	273	0.30
1990	2.00	.,														

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/}Missing data unavailable.

	MERCED			WATER A						-		ORIGIN C	OF WATER	(in p	ercent):	
	LOS BANOS			TYPE OF	AGENCY	• • • • • • • • •	MUNICIP.	AL WATE	R DEPARI	MENT		-				
		• • • • • • • • • • • • • • • • • • • •						_					E WATER		0	
						SYSTE	M SERVE	5:				WELLS	AND SPR	INGS	100	
-		#		MESI 211												
AU #	• • • • • • • • • • • • • • • • • • • •	•••••	216			IRE CIT										
						IRE CIT				Х		SOURCE (OF WATER	(in p	ercent):	
	SUS POPUL					TION OF										
	• • • • • • • • • • • • • • • • • • • •				ОТН	ER	• • • • • • • •	•••••	• • • • • • •				ISED		0	
1990	• • • • • • • • • • • • • • • • • • • •	14,519										SELF S	SUPPLIED		100	
						CONNEC										
ESIDENT		F 447	1	COMMERC				INDUSTR		-		GOVERNME		-		
	d	•			ed	773			ed	5			d	2		
Flat R	ate	34		Flat	Rate	61		Flat	Rate	0		Flat F	ate	15		
VPAD	ACTIVE	CEBVICE				TOTAL	ATED TH	TO 6467	EM (MILI	ION CA	LONE					
YEAR						IUIAL W	MIEK IN	10 2121	CH (MILI	LIUN GA	LLUMS)					
RECORD	SYSTEM	TIONS /2 CITY	JAN	FEB	MAR	APR	HAY	JUM	JUL	AUG	SEP	OCT	MOV	DEC	ANNUAL	
KELUKU	313161	CIII	JAN	LCR	MAK	APK	MAT	JUN	JUL	AUG	SEP	UL I	MUV	DEC	MINUAL	
1980	3,500	3,485	42.0	36.0	44.0	56.0	83.0	100.0	117.0	112.0	86.0	67.0	42.0	40.0	825.0	
1981	3,540	3,529	39.0	36.0	42.0		100.0	137.0	147.0	133.0	100.0	50.0	39.0	38.0	925.0	
1982	3,568	3,556	40.0	41.0	44.0	56.0	111.0	131.0	175.0	135.0	91.0	78.0	62.0	43.0	1007.0	
1983	3,669	3,657	42.0	38.0	42.0	56.0	99.0	129.0	141.0	134.0	96.0	65.0	44.0	41.0	927.0	
1984	3,716	3,704	56.0	44.0	68.0	90.0	118.0	152.0	155.0	146.0	116.0	74.0	33.0		1096.0	
1985	3,788	3,776	42.0	43.0	59.0	100.0	116.0	153.0	140.0	135.0	101.0	80.0	55.0		1064.0	
1986	3,848	3,839	43.0	38.0	55.0	83.0		158.0	155.0	138.0	115.0	85.0	68.0		1111.0	
1987	3,923	3,914	56.0	47.0	60.0	96.0	109.0	150.0	138.0	130.0	120.0	94.0	55.0		1100.0	
1988	4,119	4,110	47.0	54.0	88.0	79.0	130.0	128.0	143.0	129.0	148.0	87.0	69.0		1154.0	
1989	4,567	4,558	50.0	42.0	73.0	92.0	109.0	170.0	149.0	172.0	82.0	59.0	67.0		1116.0	
1990	4,978	4,969	46.0	49.0	84.0				156.0			104.0	92.0		1285.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DED CAD	ITA UAT	ER USE	(ancd)/	τ .				ANNUALLY	
OF	CONNEC-	TION				'	FER CAP	in mai	LK USL	(Spea)	•				gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	/4
1980	3.07	10,746	126	116	132	174	249	310	351	336	267	201	130	120	210	0.2
1981	3.06	10,816	116	119	125	197	298	422	438	397	308	149	120	113	234	0.2
1982	3.04	10,849	119	135	131	172	330	402	520	401	280	232	190	128	254	0.2
1983	3.03	11,102	122	122	122	168	288	387	410	389	288	189	132	119	229	0.2
1984	3.01	11,189	161	136	196	268	340	453	447	421	346	213	98	127	268	0.3
1985	3.00	11,349	119	135	168	294	330	449	398	384	297	227	162	114	257	0.2
1986	2.98	11,472	121	118	155	241	323	459	436	388	334	239	198	163	265	0.2
1987	2.97	11,637	155	144	166	275	302	430	383	360	344	261	158	125	259	0.2
1988	2.95	12,158	125	153	233	217	345	351	379	342	406	231	189	138	260	0.2
1989	2.94	13,412	120	112	176	229	262	423	358	414	204	142	167	123	228	0.2
		4/ 5/5	102	120	186	231	310	300	346	419	289	231	211	149	242	0.2
1990	2.92	14,545	102	120	100		• 10							147		

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually





PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

Table A-9. Tulare Lake Region Water Production and Per Capita Water Use

COUNTY	. KERN			WATER A	GENCY		TEHACH	API, CITY	OF			ORIGIN	OF WATER	(in p	ercent):	
CITY	TEHACHAPI			TYPE OF	AGENCY.		MUNICI	PAL WATER	DEPAR	TMENT						
SYSTEM #	¥		15020									SURFA	CE WATER	R	0	
HYDROLOG	GIC REGION		TULARE	LAKE		SYSTE	M SERV	ES:				WELLS	AND SPI	RINGS	100	
PLANNING	SUBAREA	#	UPLANDS	3												
DAU #			231		ENT	RE CIT	Υ			x						
					ENT	RE CIT	Y PLUS	OUTSIDE.				SOURCE	OF WATER	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE C	ITY								
1980		4,080			OTHE	R						PURCH	ASED		0	
													SUPPLIE		100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	IAL:			INDUSTR	AL:			GOVERNM	FNTAL:			
	ed	1,718			ed	152			d	50			ed	20		
	Rate	•			Rate	0			Rate	0			Rate	0		
								, , , , ,		•				•		
YEAR	ACTIVE	SERVICE			1	OTAL L	ATER I	NTO SYSTE	M (MILL	LION GAI	LONS					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	/ JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,355	1,355	13.0	13.0	14.0	20.0	24.0	40.0	24.0	66.0	34.0	27.0	20.0	30.0	325.0	
1981	1,380	1,380	15.0	12.0	13.0	20.0	31.0		50.0	47.0	37.0	20.0	16.0	36.0	340.0	
1982	1,392	1,392	40.0	11.0	14.0	16.0	37.0		50.0	47.0	37.0	20.0	16.0	36.0	366.0	
1983	1,400	1,400	13.0	11.0	13.0	14.0	29.0		46.0	36.0	34.0	22.0	14.0	13.0	287.0	
1984	1,423	1,423	14.0	14.0	19.0	23.0	39.0		44.0	42.0	37.0	23.0	16.0	15.0	326.0	
1985	1,422	1,422	15.0	14.0	15.0	26.0	35.0		48.0	47.0	30.0	25.0	18.0	16.0	330.0	
1986	1,505	1,505	18.0	13.0	17.0	21.0	42.0		45.0	52.0	35.0	28.0	21.0	18.0	355.0	
1987	1,600	1,600	18.0	16.0	16.0	30.0	39.0		56.0	55.0	35.0	69.0	19.0	20.0	422.0	
1988	1,645	1,645	18.0	18.0	24.0	28.0	35.0		52.0	54.0	45.0	38.0	24.0	20.0	415.0	
1989	1,766	1,766	19.0	20.0	23.0	37.0	43.0		61.0	74.0	43.0	36.0	27.0	25.0	461.0	
1990	1,874	1,874	21.0	19.0	24.0	35.0	53.0		61.0	74.0	43.0	36.0	27.0	25.0	464.0	
	1,014	1,014		1710		33.0		40.0	01.0	74.0		30.0			101.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WATE	R USE	(gpcd)/3	3			-	ANNUALLY	
OF	CONNEC-	TION										•			gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.01	4,080	103	110	111	163	190	327	190	522	278	213	163	237	218	0.244
1981	3.02	4,166	116	103	101	160	240	344	387	364	296	155	128	279	224	0.250
1982	3.03	4,213	306	93	107	127	283	332	383	360	293	153	127	276	238	0.267
1983	3.03	4,249	99	92	99	110	220	330	349	273	267	167	110	99	185	0.207
1984	3.04	4,330	104	111	142	177	291	308	328	313	285	171	123	112	206	0.231
1985	3.05	4,338	112	115	112	200	260	315	357	350	231	186	138	119	208	0.233
1986	3.06	4,603	126	101	119	152	294	326	315	364	253	196	152	126	211	0.237
1987	3.07	4,906	118	116	105	204	256	333	368	362	238	454	129	131	236	0.264
1988	3.07	5,057	115	123	153	185	223	389	332	344	297	242	158	128	225	0.252
1989	3.08	5,443	113	131	136	227	255	325	361	439	263	213	165	148	232	0.260
1990	3.09	5,791	117	117	134	201	295	265	340	412	248	201	155	139	220	0.246
AVERAGE			130	110	120	173	255	327	337	373	268	214	141	163	218	0.245

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	FRESNO			WATER A	GENCY		CLOVIS,	CITY O	F			ORIGIN (OF WATE	R (in p	ercent):	
CITY	CLOVIS				AGENCY					THENT						
SYSTEM #			10003									SURFA	CE WATE	R	0	
	IC REGION			LAKE		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	KINGS-K	AWEAH-T	ULE RIV	ERS										
DAU #			233		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		33,425			отн	ER				x		PURCH	ASED		0	
1990		50,564										SELF	SUPPLIE	D	100	
		•			SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
	d	12,058		Meter	ed	646		Meter	ed	48		Meter	ed	19		
	ate			Flat	Rate	2		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	0.2/0				109.0	40E 0	274.0	71/ 0	770 0	726.0	200 0	250.0	155 0	116.0	2538.0	
1980	8,249	8,249	82.0		112.0										2760.0	
1981	8,562									379.0	289.0				2740.0	
1982	8,683	8,683			133.0 124.0										2659.0	
1983	8,878		133.0 125.0	141.0					423.0				151.0		3087.0	
1984 1985	9,450	9,450 9,729	133.0		179.0								165.0	149.0		
1986		10,148			172.0								269.0	159.0	3309.0	
1987	10,148	10,751			185.0					395.0			172.0		3282.0	
1988	11,330	11,330			210.0						436.0				3590.0	
1989	12,264	11,584										330.0				
1990	14,134	12,771														
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	PITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	4.05	33,425	79	102	105	184	228	313	365	315	287	241	155	112	208	0.233
1981	4.04	34,614	123	131	104	166	255	290	378	357	303	227	147	131	218	0.245
1982	4.03	35,023	105	118	123	168	291	320	374	349	275	200	124	118	214	0.240
1983	4.02	35,727	120	112	112	156	248	256	357	320	298	199	139	124	204	0.228
1984	4.01	37,941	106	128	171	221	319	328	360	313	289	184	133	112	223	0.250
1985	4.01	38,971	110	124	148	227	277	342	351	303	246	199	141	123	217	0.243
1986	4.00	40,555	115	99	137	202	292	316	366	355	256	188	221	126	224	0.250
1987	3.99	42,865	126	103	139	231	290	289	321	297	243	217	134	117	210	0.235
1988	3.98	45,069	102	135	150	200	215	324	310	319	322	233	192	110	218	0.244
1989	3.97	48,670	113	157	128	218	290	300	334	399	268	219	191	133	230	0.257
1990	3.96	55,961	112	128	119	196	235	276	331	336	307	231	197	127	217	0.243
AVERAGE			110	122	131	197	267	305	350	333	281	213	161	121	217	0.243
MACKWOE			110	122	131	171	201	303	330	333	201	2.3	.51			

^{1/} Number of services

From 1989 to present system served city of Clovis plus outside.

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

NOTE: System served city only from 1980-1989.

1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286	COUNTY	PRESMU			WATER A	GENCY		. PKESNU	, citi (Jr			OKIGIN	OF WATE	ek (in p	percent):	
North Color Feel ON	CITY	FRESNO			TYPE OF	AGENCY		.MUNICI	PAL WATE	ER DEPAR	RTMENT						
PLANKING SURAREA #KINGS-KAMEAH-TULE RIVES DAIL #	SYSTEM #			. 10007									SURF	ACE WATE	R	. 0	
DAIJ #	HYDROLOG	IC REGION		TULARE	LAKE		SYST	EM SERVI	ES:				WELLS	S AND SE	PRINGS.	. 100	
ENTIRE CITY PLUS QUISIDE	PLANNING	SUBAREA	#	KINGS-	KAWEAH-1	TULE RIV	ÆRS										
ENTIRE CITY PLUS QUISIDE	DALI #			. 233		ENT	IRE CI	ΤΥ									
PORTION OF THE CITY													SOURCE	OF WATE	R (in a	nercent).	
1980	CITY CEN	SUS POPUI	ATTON												(111)	DC1 CC111278	
SELF SUPPLIED													DITOCI	HACED		0	
SERVICE CONNECTIONS /1 Netered			*			011	LK	•••••			•						
RESIDENTIAL:	1990	• • • • • • • • • • • • • • • • • • • •	334,020			CEDVICE	COMME	CT LONG	11				SELF	SUPPLIE		. 100	
Netered	COLDENT	741 -					CONNE	CITUMS		DTAL .			CONTENN	MENTAL -			
Flat Rate 78,957			0.00				9 07/				47/				270		
TOTAL MATER INTO SYSTEM (MILLION GALLONS) OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 63,120 59,812 946.0 899.0 1111.0 1739.0 2414.0 2903.0 3460.0 3226.0 2557.0 2080.0 1446.0 1112.0 23893.0 1981 64,544 62,378 1109.0 996.0 1058.0 1771.0 2641.0 3428.0 3739.0 3487.0 2874.0 1842.0 1217.0 1077.0 25239.0 1982 65,301 63,266 985.0 1054.0 1050.0 1619.0 2803.0 3034.0 3529.0 3497.0 2524.0 1755.0 1163.0 1137.0 24150.0 1983 66,547 65,156 1070.0 104.0.0 1051.0 1347.0 2501.0 3257.0 3606.0 3462.0 2874.0 1807.0 1262.0 1175.0 24552.0 1986 67,300 66,553 1158.0 1166.0 1596.0 2231.0 3349.0 3411.0 4094.0 3713.0 3229.0 1857.0 1426.0 1180.0 28410.0 1986 70,011 69,164 1192.0 1142.0 1435.0 2124.0 3198.0 3792.0 4074.0 4023.0 2841.0 2179.0 1784.0 1380.0 29164.0 1987 71,389 70,410 1304.0 1240.0 1537.0 2527.0 3197.0 3767.0 4014.0 3984.0 3239.0 2339.0 2339.0 2430.0 1345.0 30128.0 1988 77,093 76,593 1312.0 1662.0 2025.0 2144.0 2756.0 3988.0 4354.0 4240.0 3468.0 3299.0 2373.0 1601.0 1345.0 30128.0 1989 89,592 83,411 1643.0 1775.0 1946.0 3027.0 3615.0 4274.0 5117.0 4577.0 3896.0 2919.0 2385.0 2045.0 37219.0 1990 99,049 88,427 1599.0 1560.0 2353.0 3137.0 3756.0 4336.0 5151.0 4451.0 4086.0 3683.0 2549.0 2050.0 38711.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION PERSONS AVERAGE YEAR PER POPULA- PER CAPITA MATER USE (gpcd)/3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1980 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 488 440 377 242 166 149 265 1984 3.80 258,596 144 155 199 288 418 440 511 463 340 322 157 148 267 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 443 448 462 459 386 275 191 155 295 1986 3.90 272,772 141 150 170 260 378 443 448 462 459 386 275 191 155 295 1988 3.95 306,504 139 188 215 255 292 437 460 449 399 392 322 44 179 296 1989 3.98 356,279 149 178 178 176 283 327 400 463 414 365 264 223 185 286																	
OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JAN JAN JUL ALIG SEP OCT NOV DEC ANNUAL 1980 63,120 59,812 946.0 899.0 1111.0 1739.0 2414.0 2903.0 3460.0 3226.0 2557.0 2080.0 1446.0 1112.0 23893.0 1981 64,544 62,378 1109.0 996.0 1058.0 1771.0 2641.0 3428.0 3739.0 3487.0 2874.0 1842.0 1217.0 1077.0 25239.0 1992 65,301 63,266 985.0 1054.0 1050.0 1619.0 2803.0 3034.0 3529.0 3497.0 2524.0 1755.0 1163.0 1137.0 24150.0 1983 66,547 65,156 1070.0 1040.0 1051.0 1347.0 2501.0 3257.0 3606.0 3462.0 2874.0 1907.0 1262.0 1175.0 24552.0 1984 67,300 66,553 1158.0 1166.0 1596.0 2231.0 3349.0 3411.0 4094.0 3713.0 3229.0 1857.0 1462.0 1175.0 24552.0 1985 68,264 67,562 1156.0 1233.0 1357.0 2420.0 3075.0 3605.0 4024.0 3726.0 2658.0 2083.0 1376.0 1245.0 229164.0 1986 68,264 67,562 1156.0 1233.0 1357.0 2420.0 3075.0 3603.0 4024.0 3726.0 2658.0 2083.0 1376.0 1245.0 22956.0 1986 70,011 69,164 1192.0 1142.0 1435.0 2124.0 3198.0 3792.0 4074.0 4023.0 2841.0 2179.0 1784.0 1380.0 29164.0 1987 71,389 70,410 1304.0 1240.0 1537.0 2527.0 3198.0 3792.0 4074.0 4023.0 2841.0 2179.0 1784.0 1380.0 29164.0 1988 77,093 76,593 1312.0 1662.0 2025.0 2144.0 2756.0 3988.0 4345.0 4240.0 3648.0 3083.0 2044.0 1688.0 32935.0 1989 89,592 83,411 1643.0 1775.0 1946.0 3027.0 3615.0 4274.0 5117.0 4577.0 3896.0 2919.0 2385.0 2045.0 37219.0 1990 99,049 88,427 1599.0 1560.0 2353.0 3137.0 3756.0 4336.0 5151.0 4451.0 4086.0 3683.0 2549.0 2050.0 38711.0 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 255,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1983 3.82 255,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.86 258,596 144 155 199 288 418 440 511 443 440 371 445 345 278 1984 3.80 258,596 144 155 199 288 418 440 511 443 440 371 445 345 278 1984 3.90 277,772 141 150 170 260 378 443 448 462 459 386 273 191 155 290 1986 3.90 277,772 141 150 170 260 378 448 448 462 459 3	Flat R	ate	16,951		Flat	Rate	. 191		Flat	Rate	. 1		Flat	Rate	. 528		
RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 63,120 59,812 946.0 899.0 1111.0 1739.0 2414.0 2903.0 3460.0 3226.0 2557.0 2080.0 1446.0 1112.0 23893.0 1981 64,544 62,378 1109.0 996.0 1058.0 1771.0 2641.0 3428.0 3739.0 3487.0 2874.0 1842.0 1217.0 1077.0 25239.0 1982 65,301 63,266 985.0 1054.0 1050.0 1619.0 2803.0 3034.0 3529.0 3497.0 2524.0 1755.0 1163.0 1137.0 24150.0 1983 66,547 65,156 1070.0 1040.0 1051.0 1347.0 2501.0 3257.0 3406.0 3422.0 2874.0 1907.0 1262.0 1175.0 24552.0 1984 67,300 66,553 1158.0 1166.0 1596.0 2231.0 3349.0 3411.0 4094.0 3713.0 3229.0 1857.0 1426.0 1180.0 28410.0 1985 68,264 67,562 1156.0 1233.0 1357.0 2420.0 3075.0 3403.0 4024.0 3726.0 2565.0 2083.0 1376.0 1245.0 27956.0 1986 70,011 69,164 1192.0 1142.0 1435.0 2124.0 3198.0 3792.0 4074.0 4023.0 2841.0 2179.0 1784.0 13800.0 29164.0 1987 71,389 70,410 1304.0 1240.0 1537.0 2527.0 3197.0 3767.0 4014.0 3984.0 3239.0 2339.0 2373.0 1601.0 1345.0 30128.0 1988 77,093 76,593 1312.0 1662.0 2025.0 2144.0 2756.0 3988.0 4345.0 4240.0 3648.0 3083.0 2044.0 1688.0 32935.0 1998 89,592 83,411 1643.0 1775.0 1946.0 3027.0 3615.0 4274.0 5117.0 4577.0 3896.0 2919.0 2385.0 2045.0 37219.0 1990 99,049 88,427 1599.0 1560.0 2353.0 3137.0 3756.0 4336.0 5151.0 4451.0 4086.0 3683.0 2549.0 2050.0 38711.0 1988 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 441 362 285 204 152 278 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 443 462 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 443 462 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 443 462 476 347 258 218 163 293 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,777 141 150 170 260 378 448 440 511 443 440 365 264 223 185 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 400 463 449 399 337 224 179 155 295 19	YEAR	ACTIVE	SERVICE				TOTAL	MATER II	NTO SYS	TEM (MII	LION G	ALLONS)					
1980 63,120 59,812 946.0 899.0 1111.0 1739.0 2414.0 2903.0 3460.0 3226.0 2557.0 2080.0 1446.0 1112.0 23893.0 1981 64,544 62,378 1109.0 996.0 1058.0 1771.0 2641.0 3428.0 3739.0 3487.0 2874.0 1842.0 1217.0 1077.0 25239.0 1982 65,301 63,266 985.0 1054.0 1055.0 1619.0 2803.0 3034.0 3529.0 3497.0 2524.0 1755.0 1163.0 1137.0 24150.0 1983 66,547 65,156 1070.0 1040.0 1051.0 1347.0 2501.0 3257.0 3606.0 3462.0 2874.0 1907.0 1262.0 1175.0 24552.0 1984 67,300 66,553 1158.0 1166.0 1596.0 2231.0 3349.0 3411.0 4094.0 3713.0 3229.0 1857.0 1426.0 1180.0 28410.0 1985 68,264 67,562 1156.0 1233.0 1357.0 2402.0 3075.0 3603.0 4024.0 3726.0 2658.0 2083.0 1376.0 1245.0 27956.0 1986 70,011 69,164 1192.0 1142.0 1435.0 2157.0 2420.0 3075.0 3603.0 4024.0 3726.0 2641.0 2179.0 1784.0 1380.0 29164.0 1987 71,389 77,410 1304.0 1240.0 1537.0 2527.0 3197.0 3767.0 4014.0 3984.0 3239.0 2373.0 1601.0 1345.0 30128.0 1988 77,095 76,593 1312.0 1662.0 2025.0 2144.0 2795.0 3988.0 4345.0 4240.0 3648.0 3083.0 2044.0 1688.0 32935.0 1989 89,592 83,411 1643.0 1775.0 1946.0 3027.0 3615.0 4274.0 5117.0 4577.0 3896.0 2919.0 2385.0 2045.0 37219.0 1990 99,049 88,427 1599.0 1560.0 2353.0 3137.0 3756.0 4274.0 5117.0 4457.0 4086.0 3683.0 2549.0 2050.0 38711.0 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 443 441 453 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.99 272,772 141 150 170 260 378 443 442 459 335 254 174 152 290 1986 3.99 272,772 141 150 170 260 378 443 442 459 335 254 174 152 290 1986 3.99 272,772 141 150 170 260 378 443 442 459 346 275 191 155 295 1988 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286	OF	CONNEC	TIONS /2														
1980 63,120 59,812 946.0 899.0 1111.0 1739.0 2414.0 2903.0 3460.0 3226.0 2557.0 2080.0 1446.0 1112.0 23893.0 1981 64,544 62,378 1109.0 996.0 1058.0 1771.0 2641.0 3428.0 3739.0 3487.0 2874.0 1842.0 1217.0 1077.0 25239.0 1982 65,301 63,266 985.0 1054.0 1050.0 1619.0 2803.0 3034.0 3529.0 3497.0 2524.0 1755.0 1163.0 1137.0 24150.0 1983 66,547 65,156 1070.0 1040.0 1051.0 1347.0 2501.0 3257.0 3606.0 3462.0 2874.0 1907.0 1262.0 1175.0 24552.0 1984 67,300 64,553 1158.0 1166.0 1596.0 2231.0 3349.0 3411.0 4094.0 3713.0 3229.0 1857.0 1426.0 1180.0 28410.0 1985 68,264 67,622 1156.0 1233.0 1357.0 2420.0 3075.0 3603.0 4024.0 3726.0 2658.0 2083.0 1376.0 1245.0 27956.0 1986 70,011 69,164 1192.0 1142.0 1435.0 2124.0 3198.0 3792.0 4074.0 4023.0 2841.0 2179.0 1784.0 1380.0 29164.0 1987 71,389 70,410 1304.0 1240.0 1537.0 2527.0 3197.0 3767.0 4014.0 3984.0 3239.0 2373.0 1601.0 1345.0 30128.0 1988 77,093 76,593 1312.0 1662.0 2025.0 2144.0 2750.0 3988.0 4345.0 4240.0 3648.0 3083.0 2044.0 1688.0 32995.0 1989 89,592 83,411 1643.0 1775.0 1946.0 3027.0 35615.0 4274.0 5117.0 4577.0 3996.0 2919.0 2385.0 2045.0 37219.0 1990 99,049 88,427 1599.0 1560.0 2353.0 3137.0 3756.0 4336.0 5151.0 4451.0 4086.0 3683.0 2549.0 2050.0 38711.0 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 125 137 218 365 409 460 456 450 450 302 2919.0 2365.0 2045.0 37219.0 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,777 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 170 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 170 170 260 378 463 482	RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	R MAY	JUN	JUL	ALIG	SEP	001	NOV	DEC	ANNUAL	
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1989 89,592 83,411 1643.0 1775.0 1946.0 3027.0 3615.0 4274.0 5117.0 4577.0 3896.0 2919.0 2385.0 2045.0 37219.0 1990 99,049 88,427 1599.0 1560.0 2353.0 3137.0 3756.0 4336.0 5151.0 4451.0 4086.0 3683.0 2549.0 2050.0 38711.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAN FE9 MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	
PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAN FE9 MAR APR MAY JUN JUL AUG SEP OCT MOV DEC /3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 388 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	
PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 388 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286		•															
YEAR PER POPULA-OF PER CAPITA WATER USE (gpcd)/3 . ANNUALLY gpcd OF CONNEC-TION TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 <td>1990</td> <td>99,049</td> <td>88,427</td> <td>1599.0</td> <td>1560.0</td> <td>2353.0</td> <td>3137.0</td> <td>3756.0</td> <td>4336.0</td> <td>5151.0</td> <td>4451.0</td> <td>4086.0</td> <td>3683.0</td> <td>2549.0</td> <td>2050.0</td> <td>38711.0</td> <td></td>	1990	99,049	88,427	1599.0	1560.0	2353.0	3137.0	3756.0	4336.0	5151.0	4451.0	4086.0	3683.0	2549.0	2050.0	38711.0	
OF CONNEC- TION SERVED JAN FE9 MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286		PERSONS	AVERAGE														
RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 46	YEAR	PER	POPULA-					PER CA	PITA WA	TER USE	(gpcd)	/3				ANNUALLY	
1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286	OF	CONNEC-	TION													gpcd	afp
1980 3.74 235,756 129 131 152 246 330 410 473 441 362 285 204 152 278 1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 2	ECORD	TION	SERVED	JAN	FE9	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	- /4
1981 3.76 242,807 147 147 141 243 351 471 497 463 395 245 167 143 285 1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 2			235 754	120	131	152	266	330	410	473	441	362	285	204	152	279	0.31
1982 3.79 247,408 128 152 137 218 365 409 460 456 340 229 157 148 267 1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 3																	0.31
1983 3.82 253,916 136 146 134 177 318 428 458 440 377 242 166 149 265 1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	0.30
1984 3.84 258,596 144 155 199 288 418 440 511 463 416 232 184 147 301 1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	0.29
1985 3.87 264,133 141 167 166 305 376 455 491 455 335 254 174 152 290 1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286			•														
1986 3.90 272,772 141 150 170 260 378 463 482 476 347 258 218 163 293 1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	0.3
1987 3.92 280,058 150 158 177 301 368 448 462 459 386 273 191 155 295 1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286			•														0.32
1988 3.95 304,504 139 188 215 235 292 437 460 449 399 327 224 179 296 1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	0.32
1989 3.98 356,279 149 178 176 283 327 400 463 414 365 264 223 185 286																	0.33
																	0.33
1990 4.00 396,545 130 140 191 264 306 364 419 362 343 300 214 167 267																	0.3
	1990	4.00	396,545	130	140	191	264	306	364	419	362	343	300	214	167	267	0.30
AVERAGE 140 156 169 256 348 429 471 444 370 264 193 158 284	AVERAGE			140	154	160	256	3/8	420	471	666	370	264	103	158	284	0.31

WATER AGENCY......FRESNO, CITY OF

COUNTY.. FRESNO

ORIGIN OF WATER (in percent):

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY									ER SERV	TCE COM	PANY	URIGIN (OF WATER	(in p	ercent):	
CITY	SELMA			TYPE OF	AGENCY		INVESTO	R OWNED								
													CE WATER		0	
		1					M SERVE	S:				WELLS	AND SPE	INGS	100	
PLANNING	SUBAREA	F		AWEAH-T												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	236					• • • • • • •								
					ENT	IRE CIT	Y PLUS	OUTSIDE		×		SOURCE (OF WATER	(in p	ercent):	
CITY CENS	SUS POPUL	ATION			POR	TION OF	THE CI	η								
1980	• • • • • • • • •	11,000			OTH	ER						PURCH	ASED		100	
1990		14,757										SELF S	SUPPL IEE		0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:		1	COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Hetered	d	1,942		Meter	ed	396		Meter	ed	12		Meter	ed	55		
Flat Re	ate	2,731		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE :	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	3,324	3,324	42.0	42.0	57.0			165.0	190.0	177.0	132.0	101.0	66.0	50.0	1254.0	
1981	3,361	3,361	50.0	42.0	50.0	94.0	139.0	187.0	199.0	186.0	141.0	81.0	58.0	54.0	1281.0	
1982	3,377	3,377	51.0	52.0	54.0	83.0	159.0	162.0	177.0	181.0	124.0	87.0	52.0	51.0	1233.0	
1983	3,429	3,429	52.0	46.0	51.0	77.0	154.0	186.0	201.0	191.0	154.0	98.0	65.0	61.0	1336.0	
1984	3,441	3,441	63.0	65.0	102.0	131.0	191.0	190.0	221.0	200.0	170.0	100.0	61.0	61.0	1555.0	
1985	3,458	3,458	64.0	66.0	70.0			194.0			156.0	115.0	72.0	61.0	1521.0	
1986	3,784	3,784	62.0	50.0	69.0		191.0				149.0	120.0	91.0		1586.0	
1987	3,835	3,835	64.0	62.0	79.0			217.0			180.0	128.0	72.0		1668.0	
1988	3,899	3,899	68.0	81.0	120.0		166.0	203.0			180.0	139.0	85.0		1685.0	
1989	3,948	3,948	65.0	63.0	82.0		164.0				162.0	130.0	104.0		1654.0	
1990	4,556	4,556	85.0	70.0				170.0					87.0		1531.0	
	PERSONS										~				A	
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpca)/	3				ANNUALLY	
OF	CONNEC-	TION								4110				050	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.31	11,000	123	132	167	300	390	500	557	519	400	296	200	147	312	0.350
1981	3.30	11,099	145	135	145	282	404	562	578	541	423	235	174	157	316	0.354
1982	3.30	11,128	148	167	157	249	461	485	513	525	371	252	156	148	304	0.340
1983	3.29	11,275	149	146	146	228	441	550	575	546	455	280	192	175	325	0.364
1984	3.28	11,291	180	199	291	387	546	561	631	571	502	286	180	174	377	0.423
1985	3.27	11,322	182	208	199	392	484	571	601	595	459	328	212	174	368	0.412
1986	3.27	12,363	162	144	180	318	498	596	584	582	402	313	245	177	351	0.394
1987	3.26	12,502	165	177	204	395	495	579	586	578	480	330	192	194	366	0.409
1988	3.25	12,684	173	220	305	315	422	533	615	547	473	354	223	168	364	0.408
	3.25	12,815	164	176	206	364	413	520	584	556	421	327	271	229	354	0.396
1989		,										-				
1989 1990	3.24	14,757	186	169	212	296	317	384	437	407	341	278	197	179	284	0.318

.....

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ efpca - acre-feet per capita annually fire protection, and other agencies.

COLINTY	FRESNO			UATED A	GENCY		SANCED	CITY				OBICIN	DE MATER	/in =	ercent):	
	SANGER				AGENCY					TMENT		OKIGIN (OF WATER	Cin p	ercent):	
				TIPE OF	AGENCI	• • • • • • •	HONICIP	AL WATE	K DEPAK	IPICALI		CUREA	CE WATER		0	
				LAVE		SVSTE	M SERVE	٠.					AND SPI		100	
		#			INE DIV		H SEKAE	٠.				WELLS	AND SPI	CINGS	100	
		**********	236	NWLNII I			Υ			x						
UNU #		•••••	20				Y PLUS			^		colinar (OF LIATE			
CITY CEN	ISUS POPUL	ATTON										SOURCE I	OF WATER	(In p	ercent):	
							THE CI					D1 10 011				
	• • • • • • • • • • • • • • • • • • • •	•			OTH	EK	•••••		• • • • • • •				ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	17,025										SELF :	SUPPLIE	·····	100	
					SERVICE	CONNEC										
RESIDENT		7.00/		COMMERC				INDUSTR				GOVERNM				
	d	•			ed	216			ed	10			ed	2		
Flat R	ate	. 0		Flat	Rate	8		Flat	Rate	1		Flat I	Rate	1		
YEAR OF		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	3,465	3,465	65.0	68.0	114.0	113.0	120.0	151.0	170.0	134.0	146.0	94.0	93.0	55.0	1323.0	
1981	3,536	3,536	56.0	53.0	82.0	88.0	114.0		155.0	188.0	124.0	83.0	68.0		1234.0	
1982	3,629	3,629	46.0	48.0	62.0	70.0	127.0	141.0	143.0	159.0	131.0	87.0	50.0		1133.0	
1983	3,721	3,721	58.0	50.0	56.0	34.0	125.0	128.0	148.0	147.0	139.0	90.0	91.0		1129.0	
1984	3,824	3,824	66.0	31.0	76.0	100.0	120.0	149.0	186.0	181.0	148.0	101.0	77.0	70.0	1305.0	
1985	3,848	3,848	66.0	57.0	64.0		135.0		191.0	166.0	128.0	88.0	59.0		1262.0	
1986	4,000	4,000	52.0	56.0	58.0	91.0	141.0	159.0	205.0	150.0	110.0	93.0	68.0		1239.0	
1987	4,000	4,000	54.0	54.0	68.0		173.0	152.0		187.0	158.0	119.0				
1988	4,000	4,000	77.0	78.0	90.0	101.0	129.0	157.0					68.0		1373.0	
1989	4,000	4,000		60.0	80.0	106.0			193.0	190.0	145.0	120.0	84.0		1429.0	
1990	4,000	4,149	66.0 72.0	59.0			127.0 121.0	160.0	177.0 178.0	167.0 172.0	128.0 142.0	100.0 121.0	87.0 78.0		1329.0 1350.0	
	DEDCOME	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA UAT	ED LIGE	(ancd)/	z				ANNUALLY	
OF	CONNEC-	TION					EK Gu	a tre matt	LK OOL	(Spou)	•				gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
											• • • • • • • • • • • • • • • • • • • •					
1980	3.67	12,700	165	185	290	297	305	396	432	340	383	239	244	140	285	0.320
1981	3.71	13,115	138	144	202	224	280	435	381	462	315	204	173	128	258	0.289
1982	3.75	13,619	109	126	147	171	301	345	339	377	321	206	122	163	228	0.255
1983	3.80	14,127	132	126	128	80	285	302	338	336	328	206	215	144	219	0.245
1984	3.84	14,686	145	73	167	227	264	338	409	398	336	222	175	154	243	0.273
1985	3.88	14,947	142	136	138	243	291	326	412	358	285	190	132	114	231	0.259
1986	3.93	15,713	107	127	119	193	289	337	421	308	233	191	144	115	216	0.242
1987	3.97	15,888	110	121	138	174	351	319	374	380	331	242	143	148	237	0.265
1988	4.02	16,063	155	167	181	210	259	326	388	382	301	241	174	131	244	0.273
1989	4.06	16,238	131	132	159	218	252	328	352	332	263	199	179	141	224	0.251
1990	4.10	17,025	136	124	155	204	229	296	337	326	278	229	153	133	217	0.243
AVERAGE			134	133	166	204	283	341	380	363	307	215	168	137	237	0.265

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	KINGS			WATER A	GENCY		HANFORD	CITY	DF			ORIGIN	OF WATER	R (in n	ercent):	
	HANFORD			TYPE OF				•		TMENT		OKIGIN .	Of MATE	CIII P	er certe).	
				TIPE OF	AGENCI		nontetr.	AL WATE	COLFAR	(PERI		CIPEA	CE WATE		0	
	IC REGION			LAKE		CYCLE	M SERVE	ç.					AND SPI		100	
	SUBAREA				IRF DIV		JERVE					MEELO	7400 37	· s ruus s	100	
							γ									
JAO 1	•••••	•••••						OUTSIDE		х		SUBLE	OF WATER	(in n	ercent):	
CITY CEN	SUS POPUL	ATTON						TY		^		SOUNCE	OF MARTE	CIII P	er cerity.	
												PLIRCH	ASED		0	
		-			0111								SUPPLIE		100	
177010		0.,050			SERVICE	CONNEC	TIONS	/1				022.				
ESIDENT	TAL:			COMMERC		-		INDUSTR	TAI :			GOVERNM	ENTAL:			
	d	2,539			ed	1 068			ed	15			ed	91		
	ate	•			Rate	•			Rate	0			Rate	0		
r tot k	acc	3,111		, , ,	Nate	·		1100	NGCC	•		, , ,	nucc	•		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER IN	TO SYST	EM (MII	LION GA	(LLONS)					
OF		TIONS /2						.5 0.01								
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	7,650	6,432	89.0	87.0	103.0	168.0	239.0	294.0	330.0	300.0	221.0	175.0	129.0	100.0	2235.0	
1981	7,781	6,556	108.0	85.0	98.0	172.0	259.0	340.0	363.0	316.0	258.0	162.0	101.0	96.0	2358.0	
1982	7,929	6,699	88.0	88.0	90.0	132.0	280.0	297.0	323.0	325.0	174.0	180.0	97.0	122.0	2196.0	
1983	8,122	6,892	106.0	86.0	92.0	125.0	255.0	322.0	329.0	308.0	265.0	159.0	110.0	106.0	2263.0	
1984	8,300	7,055	102.0	112.0	190.0	246.0	349.0	354.0	391.0	340.0	200.0	161.0	111.0	93.0	2649.0	
1985	8,405	7,168	108.0	110.0	147.0	255.0	233.0	385.0	395.0	360.0	258.0	193.0	124.0	110.0	2678.0	
1986	8,590	7,360	111.0	100.0	135.0	203.0	332.0	374.0	396.0	357.0	268.0	222.0	164.0	130.0	2792.0	
1987	8,700	7,470	124.0	108.0	133.0	245.0	317.0	357.0	379.0	375.0	313.0	235.0	126.0	126.0	2838.0	
1988	8,700	8,400	120.0	138.0	182.0	201.0	291.0	341.0	391.0	346.0	294.0	232.0	148.0	110.0	2794.0	
1989	9,003	8,703	106.0	99.0	147.0	254.0	284.0	349.0	379.0	343.0	352.0	195.0	150.0	131.0	2789.0	
1990	9,340	8,912	123.0	113.0	169.0	209.0	266.0	314.0	370.0	349.0	285.0	237.0	173.0	140.0	2748.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DER CAR	ITA WAT	FR USF	(appd)/	3				ANNUALLY	
OF	CONNEC-	TION								13,,	_				gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.27	25,006	115	120	133	224	308	392	426	387	295	226	172	129	245	0.27
1981	3.29	25,628	136	118	123	224	326	442	457	398	336	204	131	121	252	0.28
1982	3.32	26,313	108	119	110	167	343	376	396	398	220	221	123	150	229	0.25
1983	3.34	27,156	126	113	109	153	303	395	391	366	325	189	135	126	228	0.25
1984	3.37	27,958	118	138	219	293	403	422	451	392	238	186	132	107	260	0.29
1985	3.39	28,520	122	138	166	298	264	450	447	407	302	218	145	124	257	0.28
1986	3.42	29,362	122	122	148	230	365	425	435	392	304	244	186	143	261	0.29
1987	3.44	29,955	134	129	143	273	341	397	408	404	348	253	140	136	260	0.29
1988	3.47	30,171	128	158	195	222	311	377	418	370	325	248	164	118	254	0.28
	3.49	31,446	109	112	151	269	291	370	389	352	373	200	159	134	243	0.27
1989																
	3.52	32,856	121	123	166	212	261	319	363	343	289	233	176	137	229	0.25

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	FRESNO			WATER A								ORIGIN O	OF WATER	(in p	ercent):	
CITY				TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT						
SYSTEM #.			10027									SURFAC	E WATER	ł	0	
HYDROLOG	IC REGION	1	TULARE	LAKE		SYSTE	M SERVE	s:				WELLS	AND SPE	EINGS	100	
PLANNING	SUBAREA	#	CINGS-K	AWEAH-TI	JLE RIV	ERS										
DAU #			239		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE (OF WATER	(in p	ercent):	
CITY CENS	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		11,225			ОТН	ER						PURCH	ASED		0	
1990		15,791										SELF S	SUPPLIED		100	
		•			SERVI CE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNME	ENTAL:			
Metere	d	5		Meter	ed	112		Meter	ed	24		Metero	ed	1		
	ate				Rate	187			Rate	11			Rate	12		
		-,														
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	3,299	3,395	45.0	44.0	55.0	83.0	117.0	149.0	169.0	167.0	123.0	109.0	65.0	59.0	1185.0	
1981	3,350	3,342	60.0	47.0	51.0	75.0	115.0	162.0	168.0	160.0	135.0	86.0	50.0	51.0	1160.0	
1982	3,379	3,367	44.0	43.0	51.0	64.0	110.0	129.0	154.0	164.0	117.0	83.0	54.0	53.0	1066.0	
1983	3,406	3,395	53.0	45.0	50.0	61.0	121.0	154.0	172.0	165.0	130.0	83.0	58.0	51.0	1143.0	
1984	3,497	3,487	54.0	52.0	74.0	100.0	147.0	167.0	191.0	177.0	153.0	90.0	61.0	55.0	1321.0	
1985	3,410	3,401	50.0	49.0	58.0	98.0	145.0	168.0	194.0	178.0	121.0	95.0	65.0	56.0	1277.0	
1986	3,489	3,489	52.0	51.0	65.0	95.0	158.0	185.0	193.0	187.0	133.0	107.0	78.0	62.0	1366.0	
1987	3,498	3,498	57.0	52.0	64.0	114.0	147.0	179.0	192.0	184.0	144.0	105.0	64.0	59.0	1361.0	
1988	3,526	3,526	61.0	68.0	88.0	96.0	129.0	160.0	201.0	187.0	156.0	127.0	79.0	64.0	1416.0	
1989	3,546	3,546	65.0	61.0	70.0	108.0	138.0	171.0	189.0	175.0	131.0	97.0	80.0	67.0	1352.0	
1990	3,724	3,724	66.0	57.0	79.0	103.0	126.0	157.0	178.0	180.0	142.0	124.0	88.0	77.0	1377.0	
	PERSONS	AVEDACE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER LIKE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					r ch con		LK OOL	(Spec))	-	-			gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	/3	14
		SCRACO	JAN		PPAN.	Mr.N	mi	20N		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			NOV		,,,	
1980	3.31	10,908	133	139	163	254	346	455	500	494	376	322	199	174	298	0.3
1981	3.40	11,389	170	147	144	220	326	474	476	453	395	244	146	144	279	0.3
1982	3.49	11,803	120	130	139	181	301	364	421	448	330	227	152	145	247	0.2
	3.59	12,216	140	132	132	166	320	420	454	436	355	219	158	135	256	0.2
1983		12,869	135	139	185	259	368	433	479	444	396	226	158	138	281	0.3
1983	5.68	,_,	125	136	145	254	364	435	486	446	313	238	168	140	272	0.3
1983 1984	3.68	12.867			1.70				461	447	329	256				
1983 1984 1985	3.77	12,867 13,491		135	155	235	378	45/					143	148	277	0.5
1983 1984 1985 1986	3.77 3.87	13,491	124	135	155	235	378	457			347		193	148	277	
1983 1984 1985 1986 1987	3.77 3.87 3.96	13,491 13,853	124 133	134	149	274	342	431	447	428	347	245	154	137	269	0.3
1983 1984 1985 1986 1987 1988	3.77 3.87 3.96 4.05	13,491 13,853 14,293	124 133 138	134 164	149 199	274 224	342 291	431 373	447 454	428 422	364	245 287	154 184	137 144	269 271	0.3
1983 1984 1985 1986 1987 1988 1989	3.77 3.87 3.96 4.05 4.15	13,491 13,853 14,293 14,705	124 133 138 143	134 164 148	149 199 154	274 224 245	342 291 303	431 373 388	447 454 415	428 422 384	364 297	245 287 213	154 184 181	137 144 147	269 271 252	0.3 0.3 0.3 0.2
1983 1984 1985 1986 1987 1988	3.77 3.87 3.96 4.05	13,491 13,853 14,293	124 133 138	134 164	149 199	274 224	342 291	431 373	447 454	428 422	364	245 287	154 184	137 144	269 271	0.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	TULARE								EK SERV	ICE COM	PANT	UKIGIN	UP WATER	k (in p	ercent):	
	VISALIA			TYPE OF	AGENCY	• • • • • • •	INVESTO	R OWNED								
	• • • • • • • •												CE WATE		0	
	IC REGION						M SERVE	S:				WELLS	AND SP	RINGS	100	
	SUBAREA			AWEAH-T												
AU #	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	242					•••••								
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							ΤΥ								
	• • • • • • • • • • • • • • • • • • • •				ОТН	ER	• • • • • • •	•••••	• • • • • • •	Х			ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	70,460										SELF	SUPPL I E	D	100	
					SERVICE	CONNEC										
ESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed				ed				ed			
Flat R	ate	17,401		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
WEAR	A 67 11 6	OFFINAL OF				TOTAL 11	ATER IN	TO CYCT	FM (MT)	1001.04	11040					
YEAR DF	ACTIVE	TIONS /2				IUIAL W	MIEK IN	TO SYST	CH (HIL	LIUN GA	LLUMS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
RECURD					PWK	APK	PAT	JUN	JUL	AUG.	367		MOV	DEC	ANNUAL	
1980	16,297	16,297	186.0	172.0	224.0	328.0	470.0	600.0	710.0	653.0	506.0	410.0	285.0	224.0	4768.0	
1981	16,514	16,514	234.0	190.0	223.0	355.0	554.0	706.0	742.0	678.0	541.0	343.0	229.0	213.0	5008.0	
1982	16,732	16,732	207.0	203.0	218.0	298.0	578.0	607.0	673.0	674.0	472.0	343.0	228.0	219.0	4720.0	
1983	17,206	17,206	222.0	193.0	219.0	281.0	542.0	670.0	726.0	681.0	546.0	383.0	268.0	238.0	4969.0	
1984	17,968	17,968	249.0	258.0	378.0	471.0	715.0	739.0	846.0	739.0	644.0	399.0	279.0	260.0	5977.0	
1985	18,548	18,548	260.0	248.0	309.0	514.0	659.0	792.0	845.0	750.0	536.0	421.0	302.0	271.0	5907.0	
1986	19,446	19,446	276.0	250.0	324.0	458.0	704.0	812.0	855.0	838.0	615.0	508.0	406.0	322.0	6368.0	
1987	19,938	19,938	307.0	268.0	337.0	564.0	765.0	852.0	868.0	843.0	677.0	528.0	308.0	300.0	6617.0	
1988	20,826	20,826	290.0	327.0	445.0	446.0	607.0	764.0	893.0	818.0	670.0	549.0	372.0	316.0	6497.0	
1989	21,264	21,264	309.0	292.0	360.0	551.0	649.0	765.0	860.0	793.0	600.0	507.0	390.0	339.0	6415.0	
1990	21,741	21,741	312.0	289.0	424.0	534.0	623.0	740.0	877.0	835.0	680.0	578.0	416.0	358.0	6666.0	
	DEBEONE	AVERAGE														
YEAR	PER	POPULA-					DED CAR	ITA WAT	FR INF	(ancd)/	3				ANNUALLY	
DF	CONNEC-	TION					. En Gra			· 34-04/	-				gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
								100		424	339	266	191	145	263	0.29
	3.05	49,729	121	119	145	220	305	402	461	424	337	200	171			0.30
	3.05 3.07	49,729 50,704	121 149	119 134	145 142	220	305 352	464	461	431	356	218	151	136	271	
1980														136 137	271 250	0.28
1980 1981	3.07	50,704	149	134	142	233	352	464	472	431	356	218	151			
1980 1981 1982	3.07 3.09	50,704 51,690	149 129	134 140	142 136	233 192	352 361	464 391	472 420	431 421	356 304	218 214	151 147	137	250	0.28
1980 1981 1982 1983	3.07 3.09 3.11	50,704 51,690 53,481	149 129 134	134 140 129	142 136 132	233 192 175	352 361 327	464 391 418	472 420 438	431 421 411	356 304 340	218 214 231	151 147 167	137 144	250 255	0.28
1980 1981 1982 1983 1984	3.07 3.09 3.11 3.13	50,704 51,690 53,481 56,190	149 129 134 143	134 140 129 158	142 136 132 217	233 192 175 279	352 361 327 410	464 391 418 438	472 420 438 486	431 421 411 424	356 304 340 382	218 214 231 229	151 147 167 166	137 144 149	250 255 291	0.28 0.32 0.31 0.31
1980 1981 1982 1983 1984 1985	3.07 3.09 3.11 3.13 3.15	50,704 51,690 53,481 56,190 58,355	149 129 134 143 144	134 140 129 158 152	142 136 132 217 171	233 192 175 279 294	352 361 327 410 364	464 391 418 438 452	472 420 438 486 467	431 421 411 424 415	356 304 340 382 306	218 214 231 229 233	151 147 167 166 173	137 144 149 150	250 255 291 277	0.28 0.32 0.31 0.31
1980 1981 1982 1983 1984 1985 1986	3.07 3.09 3.11 3.13 3.15 3.17	50,704 51,690 53,481 56,190 58,355 61,548	149 129 134 143 144 145	134 140 129 158 152 145	142 136 132 217 171 170	233 192 175 279 294 248	352 361 327 410 364 369	464 391 418 438 452 440	472 420 438 486 467 448	431 421 411 424 415 439	356 304 340 382 306 333	218 214 231 229 233 266	151 147 167 166 173 220	137 144 149 150 169	250 255 291 277 283	0.28 0.32 0.31 0.31
1980 1981 1982 1983 1984 1985 1986 1987	3.07 3.09 3.11 3.13 3.15 3.17 3.18	50,704 51,690 53,481 56,190 58,355 61,548 63,483	149 129 134 143 144 145 156	134 140 129 158 152 145 151	142 136 132 217 171 170 171	233 192 175 279 294 248 296	352 361 327 410 364 369 389	464 391 418 438 452 440 447	472 420 438 486 467 448 441	431 421 411 424 415 439 428	356 304 340 382 306 333 355	218 214 231 229 233 266 268	151 147 167 166 173 220 162	137 144 149 150 169 152	250 255 291 277 283 286	0.28 0.32 0.31
1980 1981 1982 1983 1984 1985 1986 1987	3.07 3.09 3.11 3.13 3.15 3.17 3.18 3.20	50,704 51,690 53,481 56,190 58,355 61,548 63,483 66,705	149 129 134 143 144 145 156	134 140 129 158 152 145 151 169	142 136 132 217 171 170 171 215	233 192 175 279 294 248 296 223	352 361 327 410 364 369 389 294	464 391 418 438 452 440 447 382	472 420 438 486 467 448 441 432	431 421 411 424 415 439 428 396	356 304 340 382 306 333 355 335	218 214 231 229 233 266 268 265	151 147 167 166 173 220 162 186	137 144 149 150 169 152 153	250 255 291 277 283 286 267	0.28 0.32 0.31 0.31 0.32

^{1/} Number of services
2/ Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

	TULARE				GENCY							ORIGIN	OF WATER	(in p	ercent):	
	LINDSAY			TYPE OF	AGENCY.		MUNICIP	AL WATE	R DEPAR	TMENT						
		• • • • • • • • •										SURFA	CE WATER	₹	49	
							M SERVE	S:				WELLS	AND SPI	RINGS	51	
PLANNING	SUBAREA	#	KINGS-K	AWEAH-TI	ULE RIVE	RS										
DAU #	•••••	•••••	242					OUTSIDE		x		SOURCE (OF WATER	R (in p	ercent):	
ITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CI	η								
1980		6,938										PURCH	ASED		0	
1990		8,338											SUPPLIED		100	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	TAL:			COMMERC				INDUSTR	IAL:			COVERNM	ENTAL:			
Metere	d	1,893		Meter	ed	189		Meter	ed	38			ed	NA		
	ate				Rate	0			Rate	0			Rate	NA		
		•				•				•				no.		
YEAR OF	ACTIVE	SERVICE			1	TOTAL W	ATER IN	TO SYST	EM (MIL	LION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,022	2,015	60.0	61.0	69.0	70.0	53.0	73.0	88.0	96.0	75.0	90.0	64.0	53.0	852.0	
1981	2,022	2,015	57.0	49.0	49.0	65.0	86.0	102.0	94.0	86.0	77.0	72.0	54.0	45.0	836.0	
1982	2.039	2.032	49.0	40.0	46.0	45.0	71.0	76.0	69.0	74.0	62.0	81.0	58.0	50.0	721.0	
1983	2,039	2,032	51.0	48.0	54.0	58.0	88.0	95.0	97.0	82.0	86.0	73.0	41.0	43.0	816.0	
1984	2,039	2,032	47.0	50.0	59.0	64.0	89.0	85.0	95.0	99.0	88.0	87.0	49.0	52.0	864.0	
1985	2,038	2,035	42.0	50.0	59.0	70.0	76.0	84.0	95.0	91.0	71.0	72.0	53.0	44.0	807.0	
1986	2,205	2,200	47.0	47.0	54.0	72.0	104.0	48.0	93.0	100.0	81.0	75.0	58.0	46.0	825.0	
1987	2,205	2,200	49.0	60.0	47.0	76.0	93.0	88.0	93.0	84.0	81.0	77.0	53.0	49.0	850.0	
1988	2,204	2,199	48.0	58.0	50.0	76.0	93.0	88.0	93.0	85.0	79.0	77.0	53.0	50.0	850.0	
1989	2,133	2,128	46.0	38.0	49.0	52.0	69.0	83.0	101.0	95.0	85.0	64.0	64.0	67.0	813.0	
1990	2,132	2,127	73.0	57.0	65.0	78.0	86.0	70.0	101.0	80.0	92.0	79.0	63.0	59.0	903.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/3	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	efp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.44	6,962	278	302	320	335	246	350	408	445	359	417	306	246	335	0.3
1981	3.49	7,059	260	248	224	307	393	482	430	393	364	329	255	206	324	0.3
1982	3.54	7,215	219	198	206	208	317	351	308	331	286	362	268	224	274	0.3
1983	3.59	7,312	225	234	238	264	388	433	428	362	392	322	187	190	306	0.3
1984	3.63	7,410	205	233	257	288	387	382	414	431	396	379	220	226	319	0.3
1985	3.68	7,503	181	238	254	311	327	373	408	391	315	310	235	189	295	0.3
1986	3.73	8,223	184	204	212	292	408	195	365	392	328	294	235	180	275	0.3
1987	3.78	8,328	190	257	182	304	360	352	360	325	324	298	212	190	280	0.3
1988	3.82	8,430	184	237	191	301	356	348	356	325	312	295	210	191	276	0.3
1989	3.87	8,260	180	164	191	210	269	335	394	371	343	250	258	262	270	0.3
1990	3.92	8,358	282	244	251	311	332	279	390	309	367	305	251	228	296	0.3
VERAGE			217	233	230	285	344	353	387	370	344	324	240	212	295	0.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrents, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

^{4/} afpca - acre-feet per capita annually

COUNTY	TULARE			WATER A	GENCY		TULARE,	CITY O	F			ORIGIN	OF WATE	R (in p	ercent):	
CITY	TULARE			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
SYSTEM #			54015									SURFA	CE WATE	R	0	
HYDROLOG	IC REGION		TULARE	LAKE		SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	100	
PLANNING	SUBAREA	#	KINGS-	AWEAH-T	ULE RIV	ERS										
DAU #			242		ENT	IRE CIT	Υ			. х						
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		22,650			OTH	ER						PURCH	ASED		0	
1990		33,100										SELF	SUPPL IE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	. 0		Meter	ed	1,205		Heter	ed	. NA		Meter	ed	NA		
Flat R	late	8,572		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	4 001	4 000		04.0	400.0	470.6	440.0	704.0	240.0	07/ 0	404.0	440.0		F/ C	407/ 6	
1980	6,801	6,801	72.0		102.0								72.0		1834.0	
1981	7,300	7,300	98.0	83.0											2187.0	
1982	7,628	7,628	97.0	98.0								207.0		52.0		
1983	7,956	7,956	106.0	84.0								178.0				
1984	8,284	8,284	143.0		239.0								114.0		2949.0	
1985	8,615	8,615	96.0									153.0				
1986	8,725	8,725	140.0		121.0								152.0		3008.0	
1987	8,960	8,960	132.0									265.0				
1988	9,200	9,200	113.0									325.0			3444.0	
1989	9,500	9,500	118.0												3052.0	
1990	9,442	9,442	163.0	146.0	183.0	249.0	294.0	344.0	471.0	440.0	332.0	281.0	250.0	192.0	3325.0	
	PERSONS	AVERAGE														
YEAR	PERSONS	POPULA-					DED CAR	PITA WAT	FR LISE	(apped)	73				ANNUALLY	
OF	CONNEC-	TION					ren ora			(Spoul)					gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.33	22,650	103	143	145	205	228	450	382	333	281	199	106	80	222	0.248
1981	3.35	24,440	129	121	128	226	318	450	412	315	325	213	157	141	245	0.275
1982	3.37	25,672	122	136	153	182	353	425	423	430	297	260	200	65	255	0.285
1983	3.38	26,915	127	111	127	151	259	379	428	441	378	213	142	121	241	0.270
1984	3.40	28,170	164	231	274	292	336	420	467	397	338	267	135	109	287	0.321
1985	3.42	29,446	105	147	163	310	351	448	489	398	323	168	136	125	264	0.296
1986	3.44	29,975	151	130	130	226	344	490	449	434	393	253	169	123	275	0.308
1987	3.45	30,939	138	148	170	286	373	540	386	515	614	276	191	117	313	0.351
1988	3.47	31,929	114	174	159	296	284	532	448	420	423	328	261	100	296	0.331
1989	3.49	33,137	115	107	135	250	337	389	431	406	292	233	167	155	252	0.283
1990		33,100		158	178	251	287	346	459	429	334	274	232	187	275	0.308
AVERAGE			130	146	160	243	315	443	434	411	363	244	172	120	266	0.298

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

	TULARE				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	PORTERVIL			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	THENT						
	f											SURFA	CE WATE	R	0	
	IC REGION						M SERVE	S:				WELLS	AND SP	RINGS	100	
	SUBAREA			CAWEAH-T												
DAU #			243				Υ									
							Y PLUS			х		SOURCE	OF WATE	R (in p	ercent):	
	ISUS POPUL						THE CI									
					OTH	ER	• • • • • • • •	• • • • • • • •	• • • • • • •				ASED		-	
1990	• • • • • • • • • • • • • • • • • • • •	29,850										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
	:d				ed	908			ed				ed	63		
Flat R	ate	514		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	to syst	EM (MIL	LION GA	LLONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	5,170	5,170	76.0	69.0	71.0	103.0	143.0	186.0	219.0	284.0	210.0	165.0	121.0	81.0	1728.0	
1981	5,362	4,900	65.0	47.0	39.0	106.0	138.0	181.0	266.0	219.0	216.0	154.0	90.0	68.0	1589.0	
1982	5,450	4,910	76.0	90.0	77.0	123.0	216.0	213.0	252.0	235.0	171.0	111.0	76.0	69.0	1709.0	
1983	5,600	5,000	75.0	70.0	74.0	96.0	170.0	239.0	263.0	244.0	192.0	125.0	97.0	76.0	1721.0	
1984	5,806	5,106	88.0	86.0	115.0	144.0	232.0	238.0	323.0	250.0	238.0	139.0	87.0		2018.0	
1985	6,845	5,645	79.0	80.0	106.0	156.0	248.0	254.0	298.0	253.0	199.0	147.0	94.0	75.0	1989.0	
1986	8,075	6,672	80.0	80.0	103.0	151.0	214.0	289.0	300.0	258.0	228.0	173.0	140.0		2107.0	
1987	8,023	6,579	94.0	89.0	108.0	181.0	254.0	284.0	287.0	300.0	245.0	180.0	100.0		2210.0	
1988	8,369	6,867	83.0	98.0	141.0	134.0	206.0	260.0	337.0	382.0	283.0	234.0	169.0	107.0	2434.0	
1989	9,653	7,553	108.0	123.0	104.0	194.0	292.0	306.0	322.0		218.0	185.0	155.0	129.0	2447.0	
1990	9,966	8,016	106.0	104.0	128.0	262.0	299.0	333.0	427.0	386.0	324.0	294.0	212.0		3033.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
4000	7.00	20.400	420	447	440	4/0		70/	~,,		7/7		400	420	272	0.000
1980 1981	3.95	20,400	120	117	112 60	168	226 212	304 287	346 408	449 336	343 342	261 236	198 143	128	232 207	0.260
1981	3.92	21,039	115	151	117	193	328	334	382	357	268	168	119	104	207	0.23
		21,263					252		391		295					0.243
1983	3.88	21,724	111	115	110	147		367		362		186	149	113	217	
1984	3.86	22,394	127	132	166	214	334	354	465	360	354	200	129	112	247	0.277
1985	3.83	26,249	97	109	130	198	305	323	366	311	253	181	119	92	208	0.233
1986	3.81	30,787	84	93	108	163	224	313	314	270	247	181	152	95	188	0.210
1987	3.79	30,410	100	105	115	198	269	311	304	318	269	191	110	93	199	0.223
1988	3.77	31,536	85	107	144	142	211	275	345	391	299	239	179	109	211	0.237
1989	3.75	36,160	96	121	93	179	260	282	287	277	201	165	143	115	185	0.208
1990	3.72	37,111	92	100	111	235	260	299	371	336	291	256	190	137	224	0.251
AVERAGE			102	112	115	182	262	313	362	342	287	206	148	110	213	0.238

^{1/} Number of services - 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY	FRESNO			WATER A	GENCY		HURON, (CITY OF				ORIGIN O	OF WATER	(in pe	ercent):	
CITY	HURON			TYPE OF	AGENCY.		MUNICIP/	AL WATER	R DEPART	TMENT						
SYSTEM #	f		10044									SURFAC	CE WATER		100	
HYDROLOG	IC REGION		TULARE	LAKE		SYSTE	4 SERVES	s:				WELLS	AND SPR	RINGS	0	
PLANNING	SUBAREA	#	SAN LUI	S WEST	SIDE											
DAU #			244		ENT	RE CIT	۲			х						
					ENT	RE CIT	Y PLUS (OUTSIDE.				SOURCE (OF WATER	(in pe	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	TION OF	THE CIT	TY								
1980		2,765			OTHE	R						PURCH/	ASED		100	
1990		4,766										SELF S	SUPPL IED		0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC				INDUSTR	IAL:			GOVERNME	ENTAL:			
Metere	d	576		Meter	ed	NA		Meter	ed	NA		Metere	ed	NA		
Flat R	ate	. 0		Flat	Rate	NA			Rate	NA		Flat F	Rate	NA		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER IN	TO SYSTE	EM (MILI	LION GAL	LONS)					
OF	CONNEC	CTIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	550	550	10.0	10.0	13.0	21.0	22.0	29.0	33.0	29.0	26.0	21.0	15.0	12.0	241.0	
1981	550	550	9.0	8.0	10.0	17.0	22.0	27.0	31.0	28.0	23.0	19.0	14.0	11.0	219.0	
1982	560	560	10.0	9.0	10.0	16.0	24.0	26.0	28.0	27.0	22.0	25.0	19.0	15.0	231.0	
1983	588	588	13.0	13.0	12.0	14.0	19.0	24.0	28.0	35.0	21.0	21.0	14.0	14.0	228.0	
1984	594	594	13.0	14.0	18.0	23.0	25.0	27.0	36.0	29.0	26.0	21.0	16.0	13.0	261.0	
1985	650	650	11.0	12.0	14.0	25.0	22.0	27.0	32.0	27.0	21.0	18.0	15.0	10.0	234.0	
1986	664	660	11.0	10.0	15.0	22.0	25.0	41.0	31.0	32.0	26.0	24.0	21.0	13.0	271.0	
1987	692	660	10.0	11.0	16.0	27.0	26.0	29.0	33.0	31.0	27.0	25.0	19.0	14.0	268.0	
1988	619	619	14.0	16.0	18.0	23.0	24.0	28.0	34.0	32.0	28.0	26.0	20.0	15.0	278.0	
1989	574	574	13.0	12.0	17.0	30.0	26.0	30.0	36.0	34.0	27.0	24.0	22.0	13.0	284.0	
1990	621	621	12.0	12.0	18.0	27.0	26.0	29.0	35.0	32.0	26.0	28.0	22.0	17.0	284.0	
	PERSONS	AVEDACE														
YEAR	PERSONS	AVERAGE POPULA-					DED CADI	ITA WATE	ED HEE	(gpcd)/3	,				NNUALLY	
OF	CONNEC-	TION					ER CAP	I'M WATE	IN USE	(Speci)/-	,			,		afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	/4
		JERVED				,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	GLF					/*
1980	5.03	2,765	117	125	152	253	257	350	385	338	313	245	181	140	239	0.267
1981	5.29	2,911	100	98	111	195	244	309	344	310	263	211	160	122	206	0.231
1982	5.56	3,112	104	103	104	171	249	279	290	280	236	259	204	155	203	0.228
1983	5.82	3,423	123	136	113	136	179	234	264	330	204	198	136	132	182	0.204
1984	6.09	3,615	116	134	161	212	223	249	321	259	240	187	148	116	198	0.222
1985	6.35	4,128	86	104	109	202	172	218	250	211	170	141	121	78	155	0.174
1986	6.62	4,393	81	81	110	167	184	311	228	235	197	176	159	95	169	0.189
1987	6.88	4,761	68	83	108	189	176	203	224	210	189	169	133	95	154	0.173
1988	7.15	4,423	102	125	131	173	175	211	248	233	211	190	151	109	172	0.193
1989	7.41	4,253	99	101	129	235	197	235	273	258	212	182	172	99	183	0.205
1990	7.67	4,766	81	90	122	189	176	203	237	217	182	190	154	115	163	0.183
AVERAGE			98	107	123	193	203	255	278	262	220	195	156	114	184	0.206
															10-7	3.200

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

	FRESNO				SENCY						(DRIGIN (OF WATER	(in p	ercent):	
	COALINGA			TYPE OF	AGENCY.		MUNICIPA	AL WATE	DEPAR	TMENT		1				
													E WATER		100	
		1				SYSTE	M SERVE	S:				WELLS	AND SPR	INGS	0	
		#		S WEST												
DAU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	245				Υ									
							Y PLUS			х		SOURCE (OF WATER	t (in p	ercent):	
	SUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •				OTHE	R	• • • • • • • •	•••••	• • • • • • •				ASED		100	
1990		8450										SELF !	SUPPLIED		0	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:		1	COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d			Meter	ed	172		Meter	ed	14		Meter	ed	34		
Flat R	ate	2940		Flat	Rate	43		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER IN	TO SYST	EN (NILI	LION GA	LLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,705	2,692	13.0	13.0	42.0	82.0	76.0	98.0	122.0	93.0	82.0	52.0	65.0	28.0	766.0	
1981	2,825	2,811	24.0	21.0	35.0	58.0		129.0		134.0	111.0	70.0	31.0	15.0	879.0	
1982	2,858	2,842	33.0	30.0	18.0	34.0	107.0		135.0	133.0	89.0	60.0	28.0	18.0	800.0	
1983	2,784	2,748	50.0	19.0	27.0	35.0	96.0	137.0	130.0	121.0	99.0	58.0	38.0	33.0	843.0	
1984	2,784	2,825	30.0	33.0	68.0	72.0	118.0	128.0	148.0	131.0	113.0	66.0	37.0	29.0	973.0	
1985	2,944	2,875	28.0	38.0	44.0	84.0	112.0		147.0	130.0	92.0	76.0	49.0	46.0	983.0	
		•														
1986	3,018	2,948	44.0	38.0	51.0 45.0	72.0	120.0 115.0	128.0	144.0	144.0	95.0 103.0	73.0 77.0	47.0 33.0	31.0	998.0 952.0	
1987	2,439	2,376	34.0	27.0 42.0	61.0	69.0	93.0	128.0	142.0	132.0	98.0	69.0	37.0	38.0	943.0	
1988	2,847	2,791			53.0	89.0		130.0	134.0	125.0	94.0	62.0	47.0	40.0	927.0	
1989 1990	2,847 2,665	2,791 2,601	24.0	27.0 36.0	68.0		110.0				103.0	78.0	48.0		1032.0	
1770		2,001	33.0	30.0	00.0	01.0		120.0	152.0	147.0	105.0		40.0		1052.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3	-			ANNUALLY	
OF	CONNEC-	TION					*****			****					gpcd	afp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.44	6,607	63	68	205	414	371	494	596	454	414	254	328	137	318	0.3
1981	2.52	7,128	109	105	158	271	466	603	670	606	519	317	145	68	338	0.3
1982	2.60	7,441	143	144	78	152	464	515	585	577	399	260	125	78	295	0.3
1983	2.68	7,473	216	91	117	156	414	611	561	522	442	250	169	142	309	0.3
1984	2.76	7,969	121	143	275	301	478	535	599	530	473	267	155	117	335	0.3
1985	2.85	8,377	108	162	169	334	431	545	566	501	366	293	195	177	321	0.3
1986	2.93	8,831	161	154	186	272	438	525	526	526	359	267	177	113	310	0.3
1987	3.01	7,334	150	131	198	382	506	582	629	581	468	339	150	136	356	0.3
1988	3.09	8,790	125	165	224	262	341	485	521	484	372	253	140	139	294	0.3
1989	3.17	9,020	86	107	190	329	365	480	479	447	347	222	174	143	282	0.3
1990	3.25	8,658	123	149	253	312	410	485	566	555	397	291	185	179	327	0.3
		2,220		,												
AVERAGE			128	129	187	290	426	533	573	526	414	274	177	130	317	0.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY.	KERN			WATER	AGENCY.		CALIFO	RNIA WA	TER SER	VICE CO	MPANY	ORIGIN	OF WATE	R (in	percent):	
CITY	BAKERSFIE	LD			F AGENC											
SYSTEM #	F		15003									SURF	ACE WATE	R	. 15	
HYDROLOG	IC REGION	1	TULARE	LAKE		SYSTI	M SERV	ES:				WELLS	S AND SE	RINGS.	. 85	
PLANNING	SUBAREA	#	KERN V	LLEY F	LOOR											
DAU #			254		EN	TIRE CIT	η									
					EN	TIRE CIT	TY PLUS	OUTSID	E	. х		SOURCE	OF WATE	R (in p	percent):	
CITY CEN	ISUS POPUL	ATION			PO	RTION O	THE C	ITY								
1980		145,390			OTI	IER						PURCI	ASED		. 15	
1990		172,800										SELF	SUPPLIE	D	. 85	
					SERVICE	CONNE	CTIONS	/1								
RESIDENT	TIAL:			COMMER	CIAL:			INDUST	RIAL:			GOVERNI	ENTAL:			
Metere	ed	5,905		Mete	red	6,266		Mete	red	. 47		Meter	red	. 335		
Flat R	Rate	39,079		Flat	Rate	. 0		Flat	Rate	. 0		Flat	Rate	. 0		
YEAR	ACTIVE	SERVICE				TOTAL I	MTCD I	NTO EVE	TEM (MI	LL TON C	ALLOWC \					
OF		TIONS /2				TOTAL 1	erick II	HIU 313	ich (MI	LLION G	HELUMO)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	r JUN	j Jul	AUG	i SEP	ОСТ	NOV	DEC	ANNUAL	
											- GEF				- MINORE	
1980	45,482	45,482	663.0	634.0	783.0	1253.0	1558.0	2063.0	2476.0	2306.0	1773.0	1450.0	1002.0	777.0	16738.0	
1981	46,156	46,156	775.0	689.0	769.0	1226.0	1858.0	2408.0	2637.0	2442.0	1976.0	1130.0	951.0	807.0	17668.0	
1982	46,420	46,420	718.0	759.0	774.0	1105.0	1200.0	2119.0	2446.0	2398.0	1631.0	1228.0	824.0	749.0	15951.0	
1983	46,846	46,846	703.0	633.0	708.0	1034.0	1953.0	2343.0	2529.0	2190.0	1967.0	1412.0	879.0	812.0	17163.0	
1984	47,995	47,995	822.0	943.0	1299.0	1385.0	2259.0	2433.0	2837.0	2565.0	2158.0	1463.0	1047.0	831.0	20042.0	
1985	48,826	48,826	799.0	876.0	1149.0	1803.0	2104.0	2494.0	2764.0	2505.0	1784.0	1520.0	997.0	818.0	19613.0	
1986	50,077	50,077	820.0	780.0	1073.0	1495.0	2247.0	2599.0	2766.0	2738.0	1939.0	1552.0	1130.0	834.0	19973.0	
1987	50,784	50,784	802.0	781.0	1024.0	1696.0	2197.0	2493.0	2590.0	2578.0	2036.0	1650.0	880.0	841.0	19568.0	
1988	50,927	50,927	821.0	970.0	1365.0	1438.0	1961.0	2248.0	2783.0	2550.0	2158.0	1701.0	1116.0	859.0	19970.0	
1989	51,082	51,082	848.0	842.0	1211.0	1805.0	2017.0	2361.0	2639.0	2527.0	2121.0	1621.0	1273.0	1067.0	20332.0	
1990	51,641	51,641	944.0	859.0	1300.0	1655.0	1998.0	2315.0	2689.0	2518.0	1972.0	1688.0	1239.0	1045.0	20222.0	
	DEDGONG	AVERAGE														
YEAR	PER	POPULA-					PER CA	PITA WA	TER USE	(apped)	ß				ANNUALLY	
OF	CONNEC-	TION							TEN GOL	(Spou)	, ,				good	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980		145,390	147	150		287	346		549	512		322	230	172		0.353
1981		148,235	169	166		276	404			531		246	214	176		0.366
1982		149,777	155	181			258						183	161		0.327
1983		151,852	149	149		227	415		537				193	172		0.347
1984		156,294	170	208		295	466		586				223	172		0.393
1985		159,730	161	196		376	425	520	558				208	165		0.377
1986		164,571	161	169		303	440		542			304	229	163		0.372
1987		167,654	154	166		337	423					317	175	162		0.358
1988		168,888	157	198		284	375		532				220	164		0.363
1989		170,166	161	177		354	382					307	249	202		0.367
1990	3.35	172,800	176	178	243	319	373	447	502	470	380	315	239	195	321	0.359
AVERAGE			160	176	209	300	392	492	537	503	409	301	215	173	323	0.362

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

COLUTY	KERN			LMTED A	CENCY		FACT NI	150.000		05011405			or 11175			
COUNTY	BAKERSFIE	10 /5			AGENCY						2 0121.	OKIGIN	OF WATE	K (in p	ercent):	
		כל עבו		TIPE OF	AGENCY	•••••	COMMUNI	IT SERV	ICES DI	SIKICI						
				LANT		OVOTE		•					CE WATE		87	
					000	5151E	M SERVE	2:				WELLS	AND SP	RINGS	13	
		#		ALLEY FL												
DAU #	•••••	•••••	254				γ									
							Y PLUS					SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL						THE CI									
	• • • • • • • • • • • • • • • • • • • •	•			нто	ER	• • • • • • •	• • • • • • •	• • • • • • •	. х			ASED		63	
1990	• • • • • • • • • • • • • • • • • • • •	21,273										SELF	SUPPLIE	D	37	
					SERVICE	CONNEC										
RESIDENT				COMMERC				INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	•		Meter	ed	231		Meter	ed				ed	10		
Flat R	ate	. 0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR		SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
											•					
1980	4,919	4,909	64.0	54.0	56.0	91.0		183.0		288.0		192.0	143.0	75.0	1741.0	
1981	4,910	4,909	81.0	66.0	68.0	91.0	202.0	237.0	379.0	289.0	230.0	168.0	120.0	70.0	2001.0	
1982	5,055	5,045	78.0	68.0	72.0	84.0	194.0	252.0	279.0	287.0	232.0	129.0	107.0	66.0	1848.0	
1983	5,294	5,294	61.0	67.0	64.0	83.0	180.0	335.0	368.0	173.0	206.0	155.0	118.0	81.0	1891.0	
1984	5,304	5,304	79.0	101.0	134.0	173.0	261.0	341.0	345.0	300.0	248.0	161.0	95.0	70.0	2308.0	
1985	5,499	5,489	58.0	83.0	119.0	193.0	228.0	321.0	205.0	210.0	188.0	172.0	114.0	79.0	1970.0	
1986	5,720	5,710	83.0	80.0	92.0	143.0	242.0	283.0	417.0	303.0	199.0	168.0	201.0	98.0	2309.0	
1987	5,746	5,736	73.0	81.0	123.0	186.0	314.0	340.0	241.0	235.0	240.0	249.0	130.0	76.0	2288.0	
1988	5,817	5,807	59.0	94.0	124.0	201.0	186.0	285.0	292.0	337.0	333.0	253.0	188.0	128.0	2480.0	
1989	5,901	5,891	103.0	89.0	131.0	182.0	227.0	316.0	341.0	323.0	347.0	220.0	202.0	133.0	2614.0	
1990	6,016	6,006	109.0	99.0	100.0	175.0	229.0	283.0	340.0	334.0	299.0	209.0	180.0	103.0	2460.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.81	13,823	149	135	131	219	315	441	597	672	492	448	345	175	345	0.386
1981	2.88	14,157	185	166	155	214	460	558	864	659	542	383	283	160	387	0.434
1982	2.96	14,945	168	162	155	187	419	562	602	619	517	278	239	142	339	0.379
1983	3.03	16,039	123	149	129	172	362	696	740	348	428	312	245	163	323	0.362
1984	3.10	16,458	155	212	263	350	512	691	676	588	502	316	192	137	384	0.430
1985	3.18	17,465	107	170	220	368	421	613	379	388	359	318	218	146	309	0.346
1986	3.25	18,586	144	154	160	256	420	508	724	526	357	292	360	170	340	0.381
1987	3.32	19,091	123	152	208	325	531	594	407	397	419	421	227	128	328	0.368
1988	3.40	19,752	96	164	203	339	304	481	477	550	562	413	317	209	344	0.385
1989	3.47	20,469	162	155	203	296	358	515	537	509	565	347	329	210	350	0.392
				166	151	274	347	443		506	468	316	282	156	316	0.354
1990	3.54	21,308	165	100	151	214	347	443	515	206	400	310	202	100	310	0.334
AVERAGE			143	162	180	273	404	555	593	524	474	349	276	163	342	0.383

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Serves a part of Bakersfield

COUNTY	KERN			WATER A	GENCY		OLLDALE	MITTIAL	MATER	co.		ORIGIN	OF WATE	R (in n	ercent):	
	OILDALE				AGENCY							OUT DIN	U. MAIL	n viii p	ci cont):	
					NOLHOI		OULIU	MILK D	1011101			SIDEA	CE WATE	D	98	
				LAKE		SYSTE	M SERVE	· ·					AND SP		2	
		#			OOR	01012	TOUR TE					W. L.	NO ST	NINGO.	-	
						IRE CIT	γ									
U/W # 11			234				Y PLUS					SUI IDLE	OF UATE	P (in n	ercent):	
CITY CEN	ISUS POPUL	ATTON					THE CI					SOURCE	OF MALIE	K (III p	ercent):	
										x		DIIDCH	ASED		98	
					Oili	LA				^			SUPPLIE			
1,,,,,,		20,402			SERVICE	CONNEC	TIONS	/1				JELI	SOFFEIL		-	
RESIDENT	TAI •			COMMERC		COMME		INDUSTR	TAI .			GOVERNM	ENTAL .			
	d	372			ed	NA			ed	NA			ed	NA		
	late				Rate	NA			Rate	NA			Rate			
, tar w		0,000		rtat	Mate	HAVE		rtat	Rate	PROPE.		rtat	Rate	No.		
YEAR	ACTIVE	SERVICE				TOTAL U	ATER IN	TO SYST	EM (MTI	L TON GA	LLONS					
OF		TIONS /2				. JIAL W	STER IN	.0 3131	-u (uir	TION UN	LLUM3)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	6,146	6,146	75.0	69.0	84.0	132.0	169.0	224.0	217.0	251.0	190.0	152.0	103.0	80.0	1746.0	
1981	6,153	6,153	86.0	72.0	75.0		199.0					129.0	99.0		1985.0	
1982	6,212	6,212	74.0	72.0			216.0			276.0	183.0	132.0	84.0		1843.0	
1983	6,218	6,218	80.0	68.0	79.0	113.0				229.0	208.0	136.0	285.0	79.0	2005.0	
1984	6,290	6,290	76.0	97.0	141.0	149.0	246.0	264.0	324.0	277.0	232.0	151.0	113.0	93.0	2163.0	
1985	6,311	6.311	94.0	95.0		184.0			287.0	249.0	177.0	146.0	97.0	86.0	1983.0	
1986	6,336	6,336	88.0	82.0	97.0	141.0			279.0	281.0	192.0	153.0	116.0	87.0	2019.0	
1987	6,359	6,359	84.0	76.0	106.0	179.0				256.0	201.0	166.0	86.0		1993.0	
1988	6,363	6,363	81.0	86.0	132.0	133.0				292.0	239.0	193.0	123.0	90.0	2156.0	
1989	6,367	6,367	88.0	95.0	138.0		216.0		314.0	263.0	213.0	171.0	122.0		2216.0	
1990	6,372	6,372	99.0	90.0			216.0					182.0			2176.0	
															-	
	PERSONS										_					
YEAR	PER	POPULA-					PER CAP	TIA WAT	ER USE	(gpca)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.80	23,382	103	102	116	188	233	319	299	346	271	210	147	110	205	0.229
1981	3.84	23,625	117	109	102	181	272	411	418	404	315	176	140	111	230	0.258
1982	3.87	24,070	99	107	106	159	289	324	401	370	253	177	116	106	210	0.235
1983	3.91	24,312	106	100	105	155	277	340	360	304	285	180	391	105	226	0.253
1984	3.95	24,814	99	135	183	200	320	355	421	360	312	196	152	121	239	0.267
1985	3.98	25,119	121	135	140	244	270	330	369	320	235	187	129	110	216	0.242
1986	4.02	25,441	112	115	123	185	303	346	354	356	252	194	152	110	217	0.244
1987	4.05	25,757	105	105	133	232	294	331	334	321	260	208	111	101	212	0.237
1988	4.09	25,997	101	114	164	171	289	319	378	362	306	239	158	112	227	0.254
1989	4.12	26,237	108	129	170	250	266	370	386	323	271	210	155	133	231	0.259
1990	4.16	26,482	121	121	158	232	263	302	373	326	269	222	156	150	225	0.252
AL MIRE A DET			400			800	800		770	215		000				0.000
AVERAGE			108	116	136	200	280	341	372	345	275	200	164	115	222	0.248

^{1/} Number of services

3/ gpcd - gallons per capita daily

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^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

SYSTEM #	COUNTY					GENCY							ORIGIN	OF WATE	R (in p	ercent):	
NYDROLOGIC REGION					TYPE OF	AGENCY	• • • • • • • • • • • • • • • • • • • •	MUNICIP	AL WATE	R DEPAR	TMENT						
PLANNING SURAREA #KERN VALLEY FLOOR																	
DAU #							SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
ENTIRE CITY PLUS QUTSIDE					ALLEY FL												
CITY CENSUS POPULATION 1980	DAU #	•••••	• • • • • • • • • • • • • • • • • • • •	256													
1980 16,625											Х		SOURCE	OF WATE	R (in p	ercent):	
SELF SUPPLIED																	
RESIDENTIAL: Metered 1,268 Hetered 32 Hetered 1 Refered 1,268 Flat Rate 4,252 Flat Rate 328 Flat Rate 22 Flat Rate 4,252 Flat Rate 388 Flat Rate 22 Flat Rate 4,252 Flat Rate 388 Flat Rate 22 Flat Rate 4,252 Flat Rate 388 Flat Rate 22 Flat Rate 48 **TOTAL MATER INTO SYSTEM (HILLION GALLONS)** OF CONNECTIONS /2 RECORD SYSTEM CITY JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 4,738 4,931 99.0 84.0 97.0 157.0 186.0 202.0 294.0 264.0 187.0 166.0 114.0 95.0 1945.0 1981 5,238 5,230 82.0 78.0 85.0 146.0 210.0 287.0 288.0 275.0 204.0 142.0 1111.0 94.0 1982.0 1982 5,476 5,467 75.0 94.0 93.0 136.0 215.0 235.0 270.0 350.0 149.0 117.0 87.0 99.0 1920.0 1983 4,747 4,727 77.0 73.0 90.0 126.0 212.0 260.0 278.0 203.0 149.0 117.0 87.0 99.0 1920.0 1985 4,752 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1986 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1986 5,053 4,866 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 287.0 209.0 108.0 108.0 105.0 2025.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 255.0 265.0 270.0 237.0 290.0 176.0 92.0 105.0 2025.0 1988 5,125 4,912 87.0 93.0 111.0 187.0 255.0 265.0 270.0 270.0 270.0 176.0 114.0 102.0 2027.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 277.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 **PERSONS AVERAGE** YEAR PER POPULA- OF CONNECT TION RECORD TION SERVED JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 **PER CAPITA MATER USE (gpcd)/3** PER CAPITA MATER USE (gpcd)/3** **PER CAPITA MATER USE (gpcd)/3** **PER CAPITA MATER USE (gpcd)/3** **PER OCT NOV DEC /3** **PER CAPITA MATER USE (gpcd)/3** **PER CAPITA MATER USE (gpcd)/			•			OTH	ER	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • •			PURCH	ASED	• • • • • • •	0	
RESIDENTIAL: Metered 1,268 Flat Rate 4,252 Flat Rate 328 Flat Rate 22 Flat Rate 48 YEAR ACTIVE SERVICE OF CONNECTIONS /2 RECORD SYSTEM CITY JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 4,938 4,931 99.0 84.0 97.0 157.0 186.0 202.0 294.0 264.0 187.0 166.0 114.0 95.0 1945.0 1981 5,238 5,230 82.0 78.0 85.0 146.0 210.0 287.0 288.0 275.0 204.0 142.0 111.0 94.0 1982.0 1982 5,476 5,467 75.0 94.0 93.0 136.0 215.0 235.0 270.0 350.0 149.0 117.0 87.0 99.0 1920.0 1983 4,747 4,727 77.0 73.0 90.0 126.0 212.0 260.0 278.0 213.0 150.0 124.0 87.0 88.0 1772.0 1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 206.1 25.0 120.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 285.0 266.0 163.0 150.0 108.0 105.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2007.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 200.0 174.0 175.0 152.0 100.0 2067.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 260.0 174.0 175.0 135.0 111.0 2053.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNECT TION RECORD TION SERVED JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,997 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 190 175.0 150 150 150 150 150 150 100.0 190 190 156 317 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 271 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181	1990	• • • • • • • • • • • • • • • • • • • •	22,762										SELF	SUPPLIE	D	100	
Metered							CONNEC										
Flat Rate 4,252 Flat Rate 388 Flat Rate 22 Flat Rate 48 YEAR ACTIVE SERVICE OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL 1980 4,938 4,931 99.0 84.0 97.0 157.0 186.0 202.0 294.0 264.0 187.0 166.0 114.0 95.0 1945.0 1981 5,238 5,230 82.0 78.0 85.0 146.0 210.0 287.0 268.0 275.0 204.0 142.0 111.0 94.0 1982.0 1982 5,476 5,467 75.0 94.0 95.0 126.0 212.0 250.0 278.0 250.0 187.0 164.0 87.0 88.0 1772.0 1983 4,747 4,727 71.0 73.0 90.0 126.0 212.0 269.0 278.0 213.0 150.0 124.0 87.0 88.0 1772.0 1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 265.0 246.0 163.0 176.0 114.0 102.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 245.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 2067.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 277.0 167.0 126.0 100.0 2007.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 277.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 255.0 250.0 246.0 250.0 270.0 152.0 105.0 2067.0 1990 5,623 5,413 88.0 92.0 1433.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 401 497 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0 1986 3.79 18,760 150 246 1177 308 374 436 430 377 344 280 151 167 279 0																	
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RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT MOV DEC ANNUAL 1980 4,938 4,931 99.0 84.0 97.0 157.0 186.0 202.0 294.0 264.0 187.0 166.0 114.0 95.0 1945.0 1981 5,238 5,230 82.0 78.0 85.0 146.0 210.0 287.0 268.0 275.0 204.0 142.0 111.0 94.0 1982.0 1982 5,476 5,667 75.0 94.0 93.0 136.0 215.0 235.0 270.0 350.0 149.0 117.0 87.0 99.0 1920.0 1983 4,747 4,727 71.0 73.0 90.0 126.0 212.0 260.0 278.0 213.0 150.0 124.0 87.0 88.0 1772.0 1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 285.0 246.0 163.0 150.0 108.0 105.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 2067.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 263.0 174.0 175.0 135.0 111.0 2053.0 PERSONS AVERAGE YEAR PER POPULA- OF CONNECT TION RECORD TION SERVED JAM FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 00 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 00 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
1980	OF	CONNEC	TIONS /2														
1981 5,238 5,230 82.0 78.0 85.0 146.0 210.0 287.0 268.0 275.0 204.0 142.0 111.0 94.0 1982.0 1982 5,476 5,467 75.0 94.0 93.0 136.0 215.0 235.0 270.0 350.0 149.0 117.0 87.0 99.0 1920.0 1983 4,747 4,727 71.0 73.0 90.0 126.0 212.0 260.0 278.0 213.0 150.0 124.0 87.0 88.0 1772.0 1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 285.0 246.0 163.0 150.0 108.0 105.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 20267.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 245.0 202.0 152.0 126.0 100.0 2100.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 388 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1981 5,238 5,230 82.0 78.0 85.0 146.0 210.0 287.0 268.0 275.0 204.0 142.0 111.0 94.0 1982.0 1982 5,476 5,467 75.0 94.0 93.0 136.0 215.0 235.0 270.0 350.0 149.0 117.0 87.0 99.0 1920.0 1983 4,747 4,727 71.0 73.0 90.0 126.0 212.0 260.0 278.0 213.0 150.0 124.0 87.0 88.0 1772.0 1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 285.0 246.0 163.0 150.0 108.0 105.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 20267.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 245.0 202.0 152.0 126.0 100.0 2100.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 388 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1980	4,938	4,931	99.0	84.0	97.0	157.0	186.0	202.0	294.0	264.0	187.0	166.0	114.0	95.0	1945.0	
1982 5,476 5,467 75.0 94.0 93.0 136.0 215.0 235.0 270.0 350.0 149.0 117.0 87.0 99.0 1920.0 1983 4,747 4,727 71.0 73.0 90.0 126.0 212.0 260.0 278.0 213.0 150.0 124.0 87.0 88.0 1772.0 1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 285.0 246.0 163.0 150.0 108.0 105.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 2027.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 237.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 338 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 271 0 1983 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0			•														
1983	1982	•	•	75.0	94.0	93.0	136.0	215.0	235.0	270.0	350.0	149.0					
1984 4,785 4,764 80.0 114.0 139.0 161.0 265.0 216.0 303.0 253.0 208.0 125.0 101.0 86.0 2051.0 1985 4,952 4,796 87.0 126.0 108.0 211.0 199.0 237.0 285.0 246.0 163.0 150.0 108.0 105.0 2025.0 1986 5,053 4,896 83.0 87.0 99.0 152.0 245.0 246.0 265.0 270.0 188.0 176.0 114.0 102.0 2027.0 1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 2067.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 245.0 202.0 152.0 126.0 108.0 2081.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1983			71.0	73.0	90.0	126.0	212.0	260.0								
1985	1984	•	•	80.0	114.0	139.0	161.0	265.0	216.0	303.0	253.0	208.0	125.0	101.0			
1986			•	87.0													
1987 5,123 4,912 87.0 93.0 111.0 187.0 235.0 265.0 270.0 237.0 209.0 176.0 92.0 105.0 2067.0 1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 245.0 202.0 152.0 126.0 108.0 2081.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1986	5,053	4,896	83.0	87.0	99.0	152.0	245.0	246.0	265.0	270.0	188.0	176.0	114.0	102.0	2027.0	
1988 5,125 4,194 83.0 108.0 163.0 134.0 208.0 241.0 284.0 259.0 227.0 167.0 126.0 100.0 2100.0 1989 5,400 5,145 100.0 94.0 137.0 184.0 223.0 257.0 253.0 245.0 202.0 152.0 126.0 108.0 2081.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1990 5,623 5,413 88.0 92.0 143.0 169.0 211.0 237.0 255.0 263.0 174.0 175.0 135.0 111.0 2053.0 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 2253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1987			87.0	93.0	111.0	187.0	235.0	265.0	270.0	237.0	209.0		92.0	105.0	2067.0	
PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1988	5,125	4,194	83.0	108.0	163.0	134.0	208.0	241.0	284.0	259.0	227.0	167.0	126.0	100.0	2100.0	
PERSONS AVERAGE YEAR PER POPULA- OF CONNEC- TION RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 00 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1989	5,400	5,145	100.0	94.0	137.0	184.0	223.0	257.0	253.0	245.0	202.0	152.0	126.0	108.0	2081.0	
YEAR PER CONNECTION PER CAPITA WATER USE (gpcd)/3 ANNUALLY gpcd RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1982 3.70 17,792 133 152 169 244 398 504 522 400 291 233 169 165 282 0	1990	5,623	5,413	88.0	92.0	143.0	169.0	211.0	237.0	255.0	263.0	174.0	175.0	135.0	111.0	2053.0	
OF CONNEC- TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0		PERSONS	AVERAGE														
RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC /3 1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 188 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	OF	CONNEC-	TION													gpcd	afpc
1980 3.37 16,649 192 174 188 314 360 404 570 512 374 322 228 184 320 0 1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0			SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1981 3.45 18,097 146 154 152 269 374 529 478 490 376 253 204 168 300 0 1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168			16.649	192	174	188	314	360	404	570	512	374	322	228	184	320	0.358
1982 3.54 19,375 125 173 155 234 358 404 450 583 256 195 150 165 271 0 1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1981	3.45	18,097	146	154	152	269	374	529	478	490	376	253	204	168	300	0.336
1983 3.62 17,192 133 152 169 244 398 504 522 400 291 233 169 165 282 0 1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1982	3.54	-	125	173	155	234	358	404	450	583	256	195	150	165	271	0.304
1984 3.70 17,728 146 222 253 303 482 406 551 460 391 227 190 156 317 0 1985 3.79 18,760 150 240 186 375 342 421 490 423 290 258 192 181 296 0 1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1983	3.62	•	133	152	169	244	398	504	522	400	291	233	169	165	282	0.316
1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1984	3.70		146	222	253	303	482	406	551	460	391	227	190	156	317	0.355
1986 3.87 19,563 137 159 163 259 404 419 437 445 320 290 194 168 284 0 1987 3.96 20,261 139 164 177 308 374 436 430 377 344 280 151 167 279 0	1985	3.79	18,760	150	240	186	375	342	421	490	423	290	258	192	181	296	0.331
	1986	3.87	19,563	137	159	163	259	404	419	437	445	320	290	194	168	284	0.318
	1987	3.96	20,261	139	164	177	308	374	436	430	377	344	280	151	167	279	0.313
1988 4.04 20,697 129 180 254 216 324 388 443 404 366 260 203 156 278 0	1988	4.04	20,697	129	180	254	216	324	388	443	404	366	260	203	156	278	0.311
1989 4.12 22,257 145 151 199 276 323 385 367 355 303 220 189 157 256 0	1989	4.12	22,257	145	151	199	276	323	385	367	355	303	220	189	157	256	0.287
	1990		•	120	139	195	238	288	334	348	359	245	239	190	151	238	0.266
AVERAGE 142 173 190 276 366 421 462 437 323 252 187 165 284 0	AVERAGE			142	173	190	276	366	421	462	437	323	252	187	165	284	0.318

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY				WATER A				•				ORIGIN (OF WATER	(in pe	ercent):	
	SHAFTER			TYPE OF	AGENCY.	• • • • • •	MUNICIP	AL WATE	R DEPAR	THENT						
		• • • • • • • • • • • • • • • • • • • •										SURFA	CE WATER		0	
		1				SYSTE	M SERVE	S:				WELLS	AND SPE	INGS	100	
PLANNING	SUBAREA	#	KERN VA	LLEY FL	OOR											
DAU #			256		ENT I	RE CIT	γ									
					ENT I	RE CIT	Y PLUS	OUTSIDE		х		SOURCE (OF WATER	(in pa	ercent):	
CITY CEN	SUS POPUL	ATION			POR1	ION OF	THE CI	τγ								
1980		6,975			OTHE	R						PURCH	ASED		0	
1990		8,409										SELF S	SUPPL I EL		100	
				:	SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	. 10		Meter	ed	9		Meter	ed	NA		Meter	ed	NA		
Flat R	ate	2,836		Flat	Rate	214		Flat	Rate	NA		Flat I	Rate	NA		
YEAR		SERVICE			1	OTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,048	2,048	28.0	28.0	38.0	67.0	94.0	118.0	135.0	119.0	91.0	73.0	48.0	36.0	875.0	
1981	2,080	2,080	40.0	34.0	37.0	73.0		138.0	138.0		100.0	56.0	41.0	35.0	923.0	
1982	2,250	2,250	34.0	35.0	38.0	56.0	113.0	121.0	132.0	124.0	84.0	59.0	36.0	33.0	865.0	
1983	2,492	2,492	32.0	29.0	33.0	54.0		121.0	129.0	110.0	95.0	59.0	38.0	34.0	841.0	
1984	2,501	2,501	34.0	42.0	69.0	81.0	120.0	120.0	140.0	125.0	88.0	65.0	43.0	35.0	962.0	
1985	2,516	2,516	34.0	38.0	55.0	88.0		122.0			79.0	69.0	39.0	34.0	922.0	
1986	2,613	2,602	35.0	33.0	48.0	77.0		131.0	129.0		88.0	69.0	46.0	36.0	934.0	
1987	2,700	2,691	35.0	33.0	47.0	86.0		122.0	120.0		93.0	71.0	35.0	36.0	904.0	
1988	2,774	2,765	37.0	44.0	63.0	64.0	93.0	107.0	128.0	116.0	96.0	70.0	43.0	34.0	895.0	
1989	2,934	2,925	34.0	32.0	48.0	83.0	95.0	108.0	107.0		83.0	66.0	49.0	39.0	857.0	
1990	3,009	3,000	36.0	34.0	56.0	78.0			120.0		87.0	76.0	51.0	42.0	894.0	
													····			
YEAR	PERSONS	AVERAGE POPULA-					PER CAP		ED LICE	(mond)	7				WHUALLY	
OF		TION					PER CAP	LIA WAL	ER USE	(gpca)/	3			,		2672
RECORD	CONNEC-	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afpci
		JERVED														
1980	3.41	6,975	129	138	176	320	435	564	624	550	435	338	229	166	344	0.385
1981	3.35	6,959	185	175	172	350	501	661	640	570	479	260	196	162	363	0.407
1982	3.29	7,392	148	169	166	253	493	546	576	541	379	257	162	144	321	0.359
1983	3.22	8,037	128	129	132	224	429	502	518	442	394	237	158	136	287	0.321
1984	3.16	7,915	139	183	281	341	489	505	571	509	371	265	181	143	333	0.373
1985	3.10	7,811	140	174	227	376	434	521	566	504	337	285	166	140	323	0.362
1986	3.04	7,954	142	148	195	323	466	549	523	515	369	280	193	146	322	0.360
1987	2.98	8,056	140	146	188	356	444	505	480	460	385	284	145	144	307	0.344
1988	2.92	8,110	147	187	251	263	370	440	509	461	395	278	177	135	302	0.339
1989	2.86	8,401	131	136	184	329	365	429	411	434	329	253	194	150	279	0.313
1990	2.80	8,434	138	144	214	308	352	431	459	432	344	291	202	161	290	0.325
AVERAGE			143	157	199	313	434	514	534	493	383	275	182	148	316	0.354

^{1/} Number of services

3/ gpcd - gallons per capita daily

^{2/} Excludes services 5/ gpca - gattons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.



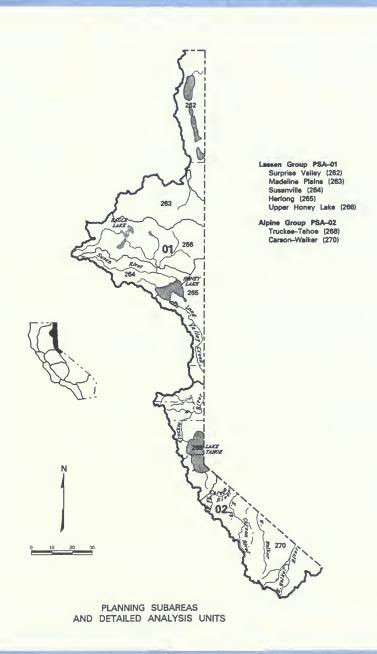


Table A-10. North Lahontan Region Water Production and Per Capita Water Use

	LASSEN			WATER A				•				ORIGIN (OF WATER	(in p	ercent):	
	SUSANVILL			TYPE OF	AGENCY.		UNICIP	AL WATE	R DEPAR	THENT						
		•••••											CE WATER		0	
						SYSTE	SERVE	s:				WELLS	AND SPE	RINGS	100	
		#		GROUP												
DAU #	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	264					•••••								
								OUTSIDE		X		SOURCE (OF WATER	(in p	ercent):	
	SUS POPUL							ΤΥ								
	• • • • • • • • •				OTHE	R	• • • • • •	•••••	• • • • • • •				ASED		0	
1990		7,279										SELF S	SUPPL I EL	·····	100	
					SERVICE	CONNECT	TIONS	•								
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed	285		Meter	ed	6		Meter	ed	49		
Flat R	ate	0		Flat	Rate	0		Flat	Rate	0		Flat I	Rate	0		
YEAR	ACTIVE	SERVICE			Т	TOTAL W	ATER IN	TO SYST	EM (MILI	LION GAL	LONS)	7/				
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	2,600	2,564	23.8	36.2	31.2	27.2	70.0	67.8	77.0	107.0	63.3	71.2	39.8	36.5	651.0	
1981	2,675	2,635	66.8	53.0	52.3	70.4	65.4	94.9	140.9	100.8	81.5	64.2	58.4	52.6	901.2	
1982	/5	•	-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	٠.	-	-	-	-		
1984			-	-	-	-	-	-	-	-	-	-	-	_	-	
1985	2.798	2,724		-	-	-	-				71.4	55.9	51.6	69.1	-	
1986	2.737	2,665	55.3	59.8	64.2	61.7	84.0	75.3	89.2	85.3	63.2	70.0	62.1	55.9	826.0	
1987	2,853	2,597	63.6	55.8	55.6	55.0	82.3	86.9	93.6	64.4	60.2	70.0	59.2	53.7	800.3	
1988	2,826	2,540	61.2	53.4	53.3	68.1	66.0	93.5	99.8	61.6	90.2	58.1	58.1	58.1	821.4	
1989	2,826	2,540	56.2	55.0	63.4	55.7	62.8	84.7	100.5	88.6	91.4	54.9	59.2	53.7	826.1	
1990	3,090	2,784	54.5	54.6	66.9	62.3	69.1	96.4	95.2	116.2	75.8	58.9	69.0	61.2	880.1	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	ITA WAT	ER USE	(gpcd)/3	5				ANNUALLY	
OF	CONNEC-	TION													good	efpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.54	6,612	116	189	152	137	341	342	375	522	319	347	201	178	270	0.302
1981	2.55	6,821	316	277	247	344	309	464	666	477	398	304	285	249	362	0.405
1982	2.56		-	-	-	-	-	~		-	-	-	-	-	-	-
1983	2.56		-	-	-	-	-	-	-	-	-	-	-		-	-
1984	2.57		-	-	-	•	-	-		-	-	-	-	-	-	-
1985	2.58	7,215	-	-	-	-	-	-	-	-	330	250	238	309	-	-
1986	2.59	7,078	252	302	293	291	383	355	407	389	298	319	292	255	320	0.358
1987	2.59	7,398	277	269	242	248	359	392	408	281	271	305	267	234	296	0.332
	2.60	7,348	269	251	234	309	290	424	438	270	409	255	264	255	306	0.343
1988	0.44	7.369	246	267	278	252	275	383	440	388	413	240	268	235	307	0.344
1988 1989	2.61															
	2.61	8,079	218	241	267	257	276	398	380	464	313	235	285	244	298	0.334

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

	PLACER			WATER A						LITY DI	SI.	ORIGIN (DE WATE	(in p	ercent):	
	DOLLAR CO			TYPE OF	AGENCY.		PUBLIC 1	WATER D	ISTRICT							
													CE WATE		100	
	IC REGION					SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#		GROUP												
AU #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	268					• • • • • • •		X						
					ENT	RE CIT	Y PLUS	OUTSIDE.				SOURCE (OF WATE	(in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR1	TION OF	THE CI	τγ								
1980	• • • • • • • • •	5,471			OTHE	R		• • • • • • •				PURCH	ASED		0	
1990	• • • • • • • • • • • • • • • • • • • •	6,400										SELF S	SUPPL I E)	100	
				:	SERVICE	CONNEC	TIONS:	2/								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNMI	ENTAL:			
Metere	d	3,098		Meter	ed	212		Meter	ed	NA		Meter	ed	NA		
Flat R	ate	29		Flat	Rate	1		Flat F	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE			1	TOTAL W	ATER IN	TO SYSTE	M CHILL	ION GAL	LONS					
OF		TIONS 3/														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	
1980	2,963	2,963	61.4	70.3	68.4	60.9	54.3	49.8	47.9	48.2	43.4	48.0	49.2	52.9	654.7	
1981	/6		-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984			-	-	-	-	-	-	-	-	-	-	-	-	-	
1985	3,306		52.8	59.8	49.2	38.7	34.7	42.9	43.0	42.7	42.0	39.9	48.0	52.9	546.6	
1986			-	-	-	-	-	-	-	-	-	-	-	-		
1987	3,250		37.5	33.0	32.6	30.3	35.8	37.2	49.5	51.5	43.6	34.7	29.0	35.1	449.8	
1988	•		-	-	-	-	-	-	-	-	-		-	-	-	
1989			-	_	-	-	-	-	-	-	-	-	-	-	-	
1990	3,340	3,340	31.9	32.9	31.5	29.8	34.4	41.0	52.0	51.7	43.4	34.8	28.3	35.0	446.5	
	- · · · ·															
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	ER USE	(gpcd)/3	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	1.85	5,471	362	443	403	371	320	303	282	284	264	283	300	312	328	0.367
1981	1.85		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	1.86		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	1.87		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	1.87		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	1.88	6,220	274	343	255	207	180	230	223	221	225	207	257	274	241	0.270
1986	1.89			-	-	-	-	-	-	-	-	-	-	-	-	-
1987	1.90	6,160	196	191	171	164	187	201	259	270	236	182	157	184	200	0.224
1988	1.90			-	-	-	-	-	-	-	-	-	-	-	-	
1989	1.91		-	-	-	-	_	-	-	-	-	-	-	-	-	
1990	1.92	6,400	161	184	159	155	173	213	262	260	226	175	147	176	191	0.214

^{1/} Number of services

VERAGE

257

224 215 237

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{6/} Missing data is unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/} Data is a combination of Carnelian Woods, Dollar Cove and and North Tahoe PUD Main.

	EL DORADO				GENCY						IST.	ORIGIN	OF WATE	R (in p	ercent):	
	SOUTH LAK			TYPE OF	AGENCY	• • • • • •	PUBLIC	WATER D	ISTRICT							
	f												CE WATE		0	
	IC REGION					SYSTE	M SERVE	s:				WELLS	AND SP	RINGS	100	
	SUBAREA			GROUP												
DAU #	••••••	• • • • • • • • • • • • • • • • • • • •	268													
								OUTSIDE		Х		SOURCE	OF WATE	R (In p	ercent):	
	ISUS POPUL							ΤΥ								
	• • • • • • • • • • • • • • • • • • • •	•			OTHI	ER	• • • • • • •	• • • • • • •	• • • • • • •				IASED		0	
1990		36,090			055141.05		T10110.	2.				SELF	SUPPLIE	D	100	
					SERVICE	CONNEC						001551111				
RESIDENT				COMMERC		57/		INDUSTR		MA		GOVERNM		***		
	:d				ed	536			ed				ed			
Flat F	ate	11,094		Flat	Rate	416		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF RECORD	SYSTEM	TIONS 3/	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	313167					AFR										
1980	7,301	7,301	183.4	187.5	139.1	120.1	91.0	101.8	98.9	96.6	105.9	108.9	135.5	191.3	1560.0	
1981	/6		-	-	-	-	-	-	-	-	-	-	-	-	•	
1982			•	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-		-	-	-		-		-				
1984	9,443			171.1		111.0	98.0		112.2	122.5	114.2	117.8	180.5	197.6	1658.3	
1985	9,481	9,481		233.0	184.7			119.3		119.6	118.2	127.4	166.3	214.9	1854.0	
1986	11,848			110.0			173.0	221.0		247.0	169.0	120.0	111.0	119.0	1874.0	
1987	11,848	•			247.0			159.0	145.0		143.0	143.0	205.0	208.0	2312.0	
1988	11,913			130.0		143.0	205.0	208.0		261.0	218.0	182.0	136.0	152.0	2209.0	
1989	11,817				146.3				318.2		201.8	146.7		135.0		
1990	12,046	11,480	168.0	148.0	142.0	144.0	1/2.0	220.0	265.0	265.0	214.0	188.0	132.0	1/3.0	2231.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	2.88	21,000	282	308	214	191	140	162	152	148	168	167	215	294	204	0.22
1981	2.90	21,000	- 202	-	217	171	-	-	-	.45	.00			-	-	-
1982	2.93		-	_	-		_	_		_	_	-	-			٠.
1983	2.96		_	_	-	-	_	_	-	-		-	_	_	-	
1984	2.98	28, 171	220	209	158	131	112	123	128	140	135	135	214	226	161	0.18
1985	3.01	28,538	273	292	209	137	104	139	136	135	138	144	194	243	178	0.19
1986	3.04	35,980	100	109	111	112	155	205	221	221	157	108	103	107	143	0.16
1987	3.06	36,296	259	316	220	181	109	146	129	116	131	127	188	185	175	0.19
1988	3.09	36,814	127	122	125	129	180	188	251	229	197	159	123	133	164	0.18
1989	3.12	36,833	137	156	128	134	165	213	279	233	183	128	119	118	166	0.18
1990	3.14	37,869	143	140	121	127	147	194	226	226	188	160	116	147	161	0.18
AVERAGE			193	206	161	143	139	171	190	181	162	141	159	182	169	0.18

^{1/} Number of services

6/Missing data is unavailable.

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallona per capita daily 4/ afpca - acre-feet per capita annually 5/Data is a combination of So.Tahoe PUD, Main and So. Tahoe PUD, Echo View Estates.

	TAHOE CIT			TYPE OF	AGENCY.		PUBLIC I	ATER D	STRICT							
SYSTEM #			31010									SURFA	CE WATER	2	41	
		#				SYSTE	1 SERVES	S:				WELLS	AND SPI	RINGS	59	
			268		ENT	RE CITY	(
							PLUS			х		SOURCE	OF WATER	(in pe	ercent):	
ITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	γγ								
1980		10,000										PURCH	ASED		0	
													SUPPL I EL		100	
					SERVICE	CONNECT										
ESIDENT			1	COMMERC			1	NDUSTR				GOVERNM				
	d	0			ed	339			d	NA			ed	1		
Flat R	ate	6,181		Flat	Rate	1		Flat	Rate	NA		Flat	Rate	0		
YEAR	ACTIVE	SERVICE			Т	OTAL W	ATER IN	O SYSTI	EM (MIL	LION GAI	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	3,206	3,206	53.1	65.1	38.5	31.0	19.9	25.2	18.0	22.0	28.0	26.5	32.5	57.4	417.2	
1981	/6	-,	-	-	-			-		-		-	-	-	-	
1982	•		-	-	-		-	-	-	-	-	-	-	-	-	
1983			-	-	-		-	-		-	-	-	-	-	-	
1984			-	-	-	-	-	-	-	-	-	-	-		-	
1985			-	-	•	-	-	-	-	-	-	-	-	-	-	
1986			-	-	-	-	-	-	-	-		-	-	-	-	
1987			62.7	61.2	59.2	60.0	59.5	65.9	115.4	127.9	87.0	70.0	43.6	63.2	-	
1988	3,170	3,170	29.4	29.8	28.9	27.4	40.3	57.4	73.5	80.2	48.5	50.4	29.3	36.5	531.5	
1989			-	-	-	-	-	-	-	-	-	1.5	-		-	
1990	6,522	6,522	44.9	47.6	52.2	30.5	46.0	66.0	95.1	78.4	64.6	41.8	40.8	55.1	662.9	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				1	PER CAP	TA WAT	ER USE	(gpcd)/	3			-	UNNUALLY	
OF	CONNEC-	TION													gpcd	afpca
ECORD	TION	SERVED	JAN	FE8	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.12	10,000	171	224	124	103	64	84	58	71	93	85	108	185	114	0.128
1981	3.02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	2.92		•	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	2.82		-	-	-	•	-	-	-	-	-	-	-	-	-	-
1984	2.73		-	-	-	•	•	-	-	-	-	-	-	-	-	-
1985	2.63		-		-	•		-	-	-	-	-	-	-	-	-
1986 1987	2.53		-	-	-	-					-	-	-	-	•	-
	2.43	7 700		139	126	124	176	259	321	350	218	220	132	159	197	0.220
1988 1989	2.33	7,398	128	139	120	124	1/0	259	321	350	218	220	132	159	197	0.220
1999	2.24	13,940	104	122	121	73	106	158	220	181	155	97	98	128	130	0.146
	3114	,,,,,											,-			
WERAGE			134	162	124	100	115	167	200	201	155	134	113	157	147	0.165

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{6/} Missing data is unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

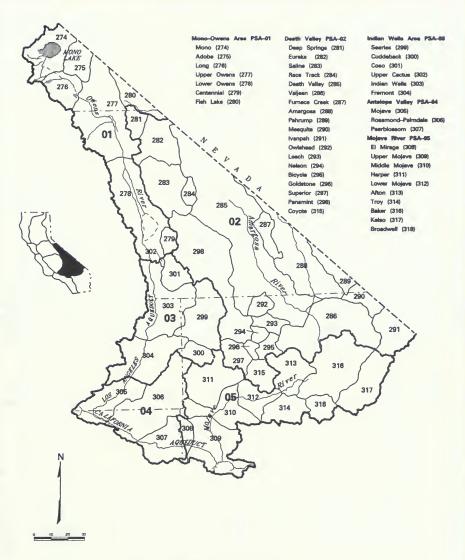
^{5/} Data is a combination of Tahoe City, Quail Lake, Lake Forest Tahoe City Main, Alpine Peaks, Mckinney Shores and Rubicon.

															_	
													E WATER		0	
		N				SYSTEM	SERVES	5:				WELLS	AND SPR	INGS	100	
		#A		ROUP		n= c										
DAU #			270					OUTSIDE.		v		ou mor.	£ 114.7F=			
	NIO DON'II	47100								X	,	SOURCE C	F WATER	(in pe	rcent):	
	SUS POPUL							ιγ				DUDOUA	orn.		0	
		500 800			OTHE	K		• • • • • • • •					SED		100	
1990	• • • • • • • • • • • • • • • • • • • •	800			ERVICE	CONNECT	SHOT	/1				SELF S	OPPLIED	• • • • • •	100	
RESIDENT	IAI +			OMMERCI		CORNECT		INDUSTRI	AI •			COVERNME	NTAL .			
	d	200		Metere		28		Metere		0	,	Metere		8		
	ate	0		Flat R		0		Flat R		0		Flat R		0		
rial Ki	acc	J		riat K	4.5			riai K	u.c	·		reat R	arc			
YEAR	ACTIVE	SERVICE			T	OTAL W	TER IN	TO SYSTE	M (MILL	ION GALI	LONS)					
OF		TIONS /2									-					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	200	200	3.0	3.0	3.0	5.0	8.0	10.0	13.0	10.0	8.0	4.0	3.0	3.0	73.0	
1981	203	203	3.0	2.6	3.0	4.9	8.4	10.4	11.8	11.1	7.9	4.3	3.3	3.1	73.8	
1982	210	210	3.2	2.7	3.4	4.3	8.2	8.5	15.8	9.3	6.3	3.9	2.6	3.3	71.5	
1983	213	213	3.8	3.4	3.2	3.3	7.5	9.6	12.0	7.8	7.7	4.7	2.8	1.7	67.5	
1984	221	221	3.4	3.1	3.0	3.1	4.6	6.5	11.0	8.4	6.9	4.8	2.9	3.2	60.9	
1985	225	225	2.7	4.7	4.2	5.1	9.7	11.5	12.8	13.8	7.0	4.5	2.8	2.6	81.4	
1986	216	216	2.5	2.2	2.7	4.1	9.3	11.7	13.4	12.5	8.6	4.4	2.8	2.9	77.1	
1987	219	219	4.7	2.3	2.7	5.2	7.5	10.0	13.0	14.0	9.0	5.0	2.0	3.0	78.4	
1988	218	218	3.0	2.0	3.0	5.0	10.0	10.0	14.0	11.0	7.0	5.0	3.0	3.0	76.0	
1989	225	225	3.0	4.0	4.0	8.0	10.0	10.0	15.0	12.0	7.0	5.0	3.0	3.0	84.0	
1990	228	228	3.0	2.0	3.0	6.0	9.0	12.0	12.0	12.0	9.0	5.0	3.0	3.0	79.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-				F	PER CAP	ITA WATE	R USE ((gpcd)/3				-	MNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.50	500	194	207	194	333	516	667	839	645	533	258	200	194	400	0.448
1981	2.60	528	183	176	183	309	513	657	721	678	499	263	208	189	383	0.429
1982	2.70	567	182	170	193	253	466	499	898	529	370	222	153	188	345	0.387
1983	2.80	597	205	203	173	184	405	536	648	421	430	254	156	92	310	0.34
1984	2.90	642	171	167	151	161	231	338	553	422	358	241	151	161	260	0.29
1985	3.00	676	129	248	200	251	463	567	611	659	345	215	138	124	330	0.36
1986	3.11	671	120	117	130	204	447	581	644	601	427	212	139	139	315	0.35
1987	3.21	702	216	117	124	247	345	475	597	643	427	230	95	138	306	0.34
1988	3.31	721	134	96	134	231	447	462	626	492	324	224	139	134	289	0.32
1989	3.41	767	126	186	168	348	421	435	631	505	304	210	130	126	300	0.33
					404	250	363	500	484	484	375	202	125	121	271	0.303
1990	3.51	800	121	89	121	250	303	300	404	404	3/3	202	123	121	211	0.30.

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily
4/ afpca - acre-feet per capita annually



PLANNING SUBAREAS
AND DETAILED ANALYSIS UNITS

Table A-11. South Lahontan Region Water Production and Per Captia Water Use

COUNTY	MONO			JATER A	GENCY		HTOMMAN	COUNTY	WATER I	DISTRICT		ORIGIN	E MATER	(in n	ercent):	
	AMMOTH L	AKES			AGENCY.							overest (- MANIER	· (III pe		
					710011011		002.0	- TIEN O				SLIPFA	E WATER		60	
				HONTAN		SYSTE	SERVE	S:					AND SPE		40	
		#											7410 41 1		40	
DAU #			276			RE CIT										
								OUTSIDE		х		SUIBLE I	E MATER	/in n	ercent):	
CITY CENS	LIS POPUL	ATION						TY				OUDITOR (N MANIET	· (III pe	icaic).	
												DIRCH	ASED		0	
					OTTL		•••••		•••••				SUPPLIED		100	
1770111		4,105			SERVI CE	CONNECT	TONS	/1				JEEF .	JOFF LILL		100	
RESIDENTIA	- 1A			COMMERC		CONTRECT		, . Industr	TAL -			GOVERNM	NTAL .			
		2,657	`		ed	200			ed	2			ed	3		
	te				Rate	0			Rate	0			Rate	0		
reat No		•		rtat	Nate	·		rtat	Mate	U		rtati	tate	U		
YEAR	ACTIVE	SERVICE			1	OTAL W	TER IN	TO SYST	EM (MILI	LION GAL	LONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,310	2,310	/5	-			-			· · · · · · · · ·	-					
1981	_,	_,	-	_	_	-		-	-			_	-	_		
1982				-		_	-	-		_			_	-		
1983			_	_				-						_	_	
1984			_	_							_			_	_	
1985	2,620	2,620	64.0	57.0	68.0	55.0	81.0	101.0	105.0	98.0	49.0	38.0	42.0	59.0	817.0	
1986	2,680	2,680	59.0	54.0	60.0	51.0	67.0	88.0	103.0	106.0	67.0	55.0	38.0	42.0	790.0	
1987	2,740	2,740	54.0	50.0	56.0	51.0	53.0	67.0	81.0	58.0	57.0	48.0	37.0	55.0	667.0	
1988	2,860	2,860	68.0	54.0	56.0	47.0	63.0	70.0	84.0	79.0	51.0	55.0	40.0	56.0	723.0	
1989	2,862	2,862	62.0	63.0	63.0	55.0	76.0	93.0	123.0	113.0	85.0	59.0	43.0	59.0	894.0	
1990	2,923	2,923	63.0	64.0	63.0	52.0	72.0	86.0	95.0	94.0	75.0	47.0	42.0	57.0	810.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					ED CAD	ITA WAT	ED LISE	(gpcd)/3					UNNUALLY	
	CONNEC-	TION							IN OOL	(Shoa))				,	apcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	1.34	3,095	-	-	-		-		-	-	-	-	-	-	-	
1981	1.37		-	-	-	-	-			-	-	-	-	-		
1982	1.40				-	-	-			-	-	_		-	-	-
1983	1.43		-	-	-	-	-	-		-	-	-		-	-	-
1984	1.46		-	-	-	-	-	-	-	-	-	_	-		-	
1985	1.49	3,900	529	522	562	470	670	863	869	811	419	314	359	488	574	0.643
1986	1.52	4,069	468	474	476	418	531	721	817	840	549	436	311	333	532	0.596
1987	1.55	4,241	411	421	426	401	403	527	616	441	448	365	291	418	431	0.483
1988	1.58	4,512	486	413	400	347	450	517	601	565	377	393	296	400	439	0.492
1989	1.61	4,600	435	489	442	399	533	674	863	792	616	414	312	414	532	0.596
1990	1.64	4,785	425	478	425	362	485	599	640	634	522	317	293	384	464	0.519
			459	466	455	399	512	650	734	681	488	373	310	406	495	0.555

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY		_								ATER DI	SIKICI	OKIGIN	OF WATE	(in p	ercent):	
	RIDGECRES			TYPE OF	AGENCY	• • • • • • •	PUBLIC	WATER D	ISTRICT							
		• • • • • • • • • • • • • • • • • • • •											CE WATER		0	
						SYSTE	M SERVE	S:				WELLS	AND SPI	RINGS	100	
		#		WELLS A	REA											
DAU #	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	303		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE				SOURCE	OF WATER	R (in p	ercent):	
CITY CEN	SUS POPUL	ATION			POR	TION OF	THE CI	TY								
1980		15,929			ОТН	ER				х		PURCH	ASED		0	
1990		27,725										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
ESIDENT	IAL:			COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	d	9,197		Meter	ed	470		Meter	ed	NA		Meter	ed	83		
Flat R	ate	600		Flat	Rate	0		Flat	Rate	0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	MTFR IM	TO SYST	EM (MILI	I TON GA	LLOWS					
OF		TIONS /2						.5 0.01								
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,000	5,000	53.0	48.0	120.0	134.0	82.0	95.0	133.0	160.0	150.0	109.0	98.0	62.0	1244.0	
1981	5,200	5,200	58.0	58.0	52.0	92.0	107.0	207.0	258.0	219.0	137.0	144.0	78.0	58.0	1468.0	
1982	5,400	5,400	53.0	58.0	82.0	93.0	128.0	168.0	166.0	178.0	132.0	105.0	74.0	63.0	1300.0	
1983	5,600	5,600	67.0	53.0	66.0	107.0	147.0	179.0	212.0	214.0	160.0	115.0	97.0	68.0	1485.0	
1984	5,711	5,711	79.0	92.0	119.0	110.0	177.0	185.0		185.0	205.0	191.0	84.0		1678.0	
1985	5,916	5,916	69.0	72.0	84.0	146.0	180.0	189.0	214.0	200.0	158.0	138.0	88.0		1626.0	
1986	7,054	7,054	82.0	75.0	120.0	157.0	217.0	239.0	239.0	224.0	202.0	135.0	112.0	82.0	1884.0	
1987	7,597	7,597	88.0	95.0	134.0	191.0	185.0	266.0	284.0	299.0	221.0	179.0	106.0	90.0		
1988	9,829	9,829	94.0	129.0	153.0	183.0	240.0	310.0	339.0	352.0	261.0	236.0	164.0	128.0	2589.0	
1989	9,609	9,609	128.0	114.0	186.0	190.0			389.0		282.0		162.0	137.0	2843.0	
1990	10,350	10,350	132.0	125.0	180.0	231.0	258.0	330.0	386.0	347.0	278.0	249.0	168.0	140.0	2824.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					DED CAD	ITA UAT	ER USE	(ancd)/	7				ANNUALLY	
OF	CONNEC-	TION					rek on	IIA MAI	LK USL	(Spea))	,				gpcd	efp
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	3.19	15,929	107	104	243	280	166	199	269	324	314	221	205	126	214	0.24
1981	3.14	16,302	115	127	103	188	212	423	511	433	280	285	159	115	247	0.27
1982	3.08	16,656	103	124	159	186	248	336	322	345	264	203	148	122	214	0.24
1983	3.03	16,989	127	111	125	210	279	351	403	406	314	218	190	129	239	0.20
1984	2.98	17,036	150	186	225	215	335	362	335	350	401	362	164	140	270	0.30
1985	2.93	17,347	128	148	156	281	335	363	398	372	304	257	169	164	257	0.2
1986	2.88	20,327	130	132	190	257	344	392	379	355	331	214	184	130	254	0.2
1987	2.83	21,506	132	158	201	296	277	412	426	448	343	268	164	135	272	0.30
1988	2.78	27,326	111	163	181	223	283	378	400	416	318	279	200	151	260	0.30
1989	2.73	26,227	157	155	229	241	396	414	478	451	358	295	206	169	297	0.3
1990	2.68	27,725	154	161	209	278	300	397	449	404	334	290	202	163	279	0.3
1770	2.00	21,123	1.54	101	209	210	500	371	777		3,74	2,70	202	ıw	217	0.3
AVERAGE			129	143	184	241	289	366	397	391	324	263	181	140	255	0.2

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{*} Number of service connections are estimated.

COUNTY	KERN		1	WATER A	GENCY		40JAVE I	PUBLIC L	TILITY	DISTRIC	г	ORIGIN (OF WATER	(in pe	ercent):	
CITY	MOJAVE			TYPE OF	AGENCY.		PUBLIC 1	ATER DI	STRICT							
SYSTEM #			15014									SURFA	E WATER		20	
HYDROLOG	IC REGION		SOUTH L	AHONTAN		SYSTE	4 SERVES	S:				WELLS	AND SPI	RINGS	80	
PLANNING	SUBAREA	#	ANTELOP	E VALLE	Υ											
DAU #			305		ENTI	RE CIT	۲									
					ENTI	RE CITY	Y PLUS	SUTSIDE.		X		SOURCE (OF WATER	(in pa	ercent):	
CITY CEN	SUS POPUL	ATION			PORT	ION OF	THE CIT	η								
1980		4,000			OTHE	R						PURCH/	ASED		20	
1990		4,500										SELF S	SUPPLIE)	80	
					SERVICE	CONNECT	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	AL:			GOVERNM	ENTAL:			
Metere	d	925		Meter	ed	253		Metere	d	7		Meter	ed	27		
	ate				Rate	0			ate	2			Rate	0		
						-				_						
YEAR	ACTIVE	SERVICE			1	OTAL W	ATER IN	TO SYSTE	M (MILI	LION GAL	LONS)					
OF		TIONS /2							4110 64							
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	948	948	22.4	15.9	18.3	35.1	34.1	39.4	55.9	56.3	52.0	38.2	25.9	31.5	425.0	
1981	978	978	22.4	15.5	17.9	33.6	46.1	53.4	64.0	62.2	51.0	35.1	28.7	21.0	450.9	
1982	964	964	16.4	14.6	18.7	19.6	34.4	49.9	46.2	52.2	50.0	31.6	21.1	17.7	372.4	
1983	982	982	17.3	14.5	14.1	19.3	24.2	51.4	51.0	42.1	44.6	28.8	25.1	18.7	351.1	
1984	1,001	1,001	18.5	21.7	25.0	34.1	37.3	47.4	52.8	45.0	49.0	37.8	25.7	23.0	417.3	
1985	1,067	1,067	14.9	17.6	24.9	40.5	37.9	51.8	62.5	62.6	49.8	43.3	25.7	20.0	451.5	
1986	1,140	1,140	20.6	17.1	20.9	35.6	41.3	54.9	66.1	63.4	55.0	34.7	31.2	19.9	460.7	
1987	1,140	1,140	20.5	20.9	24.7	40.0	43.9	54.7	67.3	68.3	61.5	43.9	24.6	23.4	493.7	
1988	1,189	1,189	18.9	19.9	29.6	37.7	48.3	59.6	69.0	71.6	63.8	52.8	45.1	31.8	548.1	
1989	1,228	1,228	22.2	23.5	32.0	48.7	54.5	53.9	68.4	80.5	60.5	47.3	34.5	26.2	552.2	
1990	1,250	1,250	27.4	26.0	33.4	42.6	52.2	66.3	71.2	63.1	43.8	39.9	31.9	28.4	526.2	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WATE	R USE	(gpcd)/3				,	WNUALLY	
OF	CONNEC-	TION													gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	4.22	4,000	181	137	148	293	275	328	451	454	433	308	216	254	291	0.326
1981	4.16	4,066	178	136	142	275	366	438	508	493	418	278	235	167	304	0.340
1982	4.10	3,948	134	132	153	165	281	421	377	493	422	258	178	145	258	0.289
1983	4.03	3,940	141	131	115	162	197	433	415	343	375	235	211	152	243	0.272
1984	3.97	3,976	150	188	203	286	303	455 397	428	365	411	307	215	187	288	0.322
1985	3.91	•		151	193	324	293	414	483	484	398	335	205	155	297	0.332
		4,172	115			324 271			485			255	237			0.322
1986	3.85	4,386	151	139	154		304	417		466	418		190	146	288	
1987	3.79	4,316	153	173	185	309	328	422	503	510	475	328		175	313	0.351
1988	3.72	4,428	138	155	216	284	352	449	503	522	480	385	340	232	339	0.380
1989	3.66	4,497	159	187	230	361	391	400	491	577	448	339	256	188	336	0.377
1990	3.60	4,500	196	206	239	316	374	491	510	452	324	286	236	204	320	0.359
AVERAGE			154	158	180	277	315	419	469	463	419	301	229	182	298	0.334

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

COUNTY.	LOS ANGEI	LES		WATER A	AGENCY		PALMDAL	E WATER	DISTRI	СТ		ORIGIN	OF WATE	R (in p	ercent):	
CITY	.PALMDALE			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #	f	• • • • • • • • • • • • • • • • • • • •	. 19102									SURFA	CE WATE	R	44	
HYDROLOG	GIC REGIO	١	SOUTH I	AHONTA	¥.	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	56	
PLANNING	G SUBAREA	#	ANTELO	E VALLE	ΕY											
DAU #			. 307		ENT	IRE CIT	Υ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		Х		SOURCE	OF WATE	R (in p	ercent):	
CITY CEN	ISUS POPUL	LATION			POR	TION OF	THE CI	π								
1980		. 12,277			ОТН	ER						PURCH	IASED		43	
1990		68,842										SELF	SUPPL 1E	D	57	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	TIAL:			COMMERC	CIAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Metere	ed	. 18,555		Meter	red	836		Meter	ed	NA		Meter	ed	232		
Flat R	Rate	. 0		Flat	Rate	3		Flat	Rate	0		Flat	Rate	0		
YEAR OF		SERVICE				TOTAL W	ATER IN	ito syst	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	6,151	6,151	/5	-	-	-	-	-	-	-			-	-		••
1981	6,576	6,576	91.0	82.0	95.0	153.0	216.0	271.0	314.0	303.0	299.0	140.0	120.0	89.0	2173.0	
1982	6,666	6,666	79.0	87.0			185.0				184.0	159.0	99.0		1836.0	
1983	7,585	7,585	87.0	74.0	85.0	114.0	222.0	244.0				146.0	129.0	88.0	1954.0	
1984	8,419	8,419	90.0	128.0	161.0	192.0	260.0	273.0	307.0	277.0	229.0	196.0	133.0	103.0	2349.0	
1985	9,935	9,935	106.0	111.0	151.0			328.0				184.0	154.0	130.0	2627.0	
1986	11,675	11,675	136.0	122.0	174.0			817.0			326.0	247.0	218.0		3657.0	
1987	13,862	13.862	154.0	159.0	188.0			425.0					199.0		3752.0	
1988	16,048	16,048	136.0	150.0	212.0		511.0		619.0			415.0	300.0		4460.0	
1989	17,709	17,709	215.0	216.0				607.0					368.0		5387.0	
1990	19,626	19,484			713.0											
						·										
YEAR	PERSONS	AVERAGE POPULA-					DED CAD	ITA WAT	ED INCE	(anad) (2				ANNUALLY	
OF	CONNEC-	TION					FER CAP	IIA WAII	ER USE	(gpcu)/	,				good	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.00	12,277	-	-	-	-	-	-	-		-	-	-	-	-	-
1981	2.15	14,136	208	207	217	361	493	639	717	691	705	319	283	203	421	0.472
1982	2.30	15,354	166	202	191	237	389	499	569	546	399	334	215	172	328	0.367
1983	2.46	18,637	151	142	147	204	384	436	497	405	436	253	231	152	287	0.322
1984	2.61	21,981	132	201	236	291	382	414	451	407	347	288	202	151	293	0.328
1985	2.76	27,466	124	144	177	278	310	398	413	440	295	216	187	153	262	0.293
1986	2.92	34,071	129	128	165	222	330	799	401	436	319	234	213	148	294	0.329
1987	3.07	42,585	117	133	142	237	264	333	339	430	346	276	156	117	241	0.270
1988	3.23	51,768	85	100	132	189	318	361	386	339	312	259	193	146	236	0.264
1989	3.38	59,848	116	129	184	234	278	338	384	354	303	260	205	166	247	0.276
1990	3.53	69,344	91	87	332	219	246	286	287	338	385	341	145	111	240	0.269
AVERAGE			132	147	192	247	339	450	444	439	385	278	203	152	285	0.319
												2.0		1.50		

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

^{3/} gpcu - getting per capita annually 4/ afpca - acre-feet per capita annually 5/ data for 1980 is unavailable.

COUNTY	SAN BERNA	RDINO		WATER A	GENCY		HESPERI	A WATER	DISTRI	CT		ORIGIN	OF WATE	R (in p	ercent):	
CITY	HESPERIA			TYPE OF	AGENCY		PUBLIC	WATER D	ISTRICT							
SYSTEM #			36024									SURFA	CE WATE	R	0	
YDROLOG	IC REGION		SOUTH L	AHONTAN		SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
LANNING	SUBAREA	#	MOJAVE	RIVER												
DAU #			309					OUTSIDE		х		SOURCE	OF WATE	R (in r	ercent):	
CITY CEN	ISUS POPUL	ATION						TY						. Сп.		
												PURCH	ASED		0	
													SUPPLIE		_	
		,			SERVICE	CONNEC	TIONS	/1								
RESIDENT	TAL:			COMMERC		-		INDUSTR	TAL :			GOVERNM	FNTAI -		-	
	d	16.556			ed	672			ed	NA			ed	64		
	ate				Rate	0.1			Rate				Rate			
I tat K		٠		1 Cac	Nate	·		i tat	nate	men		1 tac	Nate			
YEAR	ACTIVE					TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF		TIONS /2	141				****	# m.c		4110	055	0.00	Merc		*****	
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	10,000	10,000	/5	-	-	-	-	-	-	-	-	-	-	-		
1981			-	-	-	-	-	-	-	-	-	-	-	-	-	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983			-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	11,651	11,651	-	-	-	-	-	-	237.0	262.0	234.0	182.0	127.0	105.0	-	
1985	11,651	11,651	98.0	113.0	172.0	287.0	232.0	287.0	215.0	262.0	234.0	182.0	127.0	99.0	2308.0	
1986	13,079	13,079	125.0	110.0	163.0	231.0	276.0	318.0	325.0	334.0	254.0	195.0	166.0	131.0	2628.0	
1987	15,073	15,073	133.0	128.0	156.0	242.0	273.0	327.0	360.0	367.0	295.0	231.0	147.0	149.0	2808.0	
1988	16,259	16,259	123.0	155.0	216.0	215.0	304.0	351.0	417.0	336.0	324.0	305.0	204.0	163.0	3113.0	
1989	17,035	17,035	158.0	160.0	240.0	307.0	339.0	391.0	471.0	437.0	347.0	283.0	252.0	200.0	3585.0	
1990	17,476	17,476	187.0	165.0	272.0	335.0	362.0	417.0	501.0	451.0	407.0	331.0	254.0	217.0	3899.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAD	ITA WAT	ER LISE	(apcd)/	3				ANNUALLY	
OF	CONNEC-	TION								- ar//	-				gpcd	af
ECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	1
1980	3.00	30,000	-	-	-	-	-	-	-	•	-	•		-	•	-
1981	3.00		•	-	-	-	-	-	-		-		-	-	•	
1982	3.01		•	-	-	•	-	-	•	•	•	•	•	•	-	-
1983	3.01		-	-	-	•	-	-	•	-	-	-	-	-	•	-
1984	3.02	35,159	•				-	-	217	240	222	167	120	96		
1985	3.02	35,210	90	115	158	272	213	272	197	240	222	167	120	91	180	0.2
1986	3.03	39,584	102	99	133	195	225	268	265	272	214	159	140	107	182	0.2
1987	3.03	45,685	94	100	110	177	193	239	254	259	215	163	107	105	168	0.1
1988	3.04	49,352	80	108	141	145	199	237	273	220	219	199	138	107	173	0.1
1989	3.04	51,782	98	110	150	198	211	252	293	272	223	176	162	125	190	0.2
1990	3.04	53,200	113	111	165	210	220	261	304	273	255	201	159	132	201	0.2
			96	107	143	199	210	255	258	254	224	176	135	109	182	0.2

^{1/} Number of services
3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

	SAN BERNA				GENCY							ORIGIN (OF WATER	(in p	ercent):	
	LAKE ARRO			TYPE OF	AGENCY.		PUBLIC !	MATER DI	STRICT							
SYSTEM A	f		36005									SURFA	CE WATER	2	100	
HYDROLOG	IC REGION	:	SOUTH L	AHONTAN		SYSTE	4 SERVE	S:				WELLS	AND SPI	RINGS	0	
PLANNING	SUBAREA	#	MOJAVE	RIVER												
DAU #			309		ENT	RE CIT	۲			X						
					ENT	RE CIT	Y PLUS	OUTSIDE.				SOURCE	OF WATER	(in p	ercent):	
CITY CEN	ISUS POPUL	ATION			PORT	ION OF	THE CI	TY								
1980		10,000			OTHE	R						PURCH	ASED		0	
1990		15,000										SELF :	SUPPLIED)	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT	IAL:			COMMERC	IAL:			INDUSTRI	IAL:			GOVERNM	ENTAL:			
Hetere	d	6,737		Meter	ed	55		Metere	d	0		Meter	ed	7		
Flat R	ate	. 0		Flat	Rate	0		Flat F	Rate	0			Rate	0		
YEAR		SERVICE			1	OTAL W	ATER IN	TO SYSTE	EM (MILI	LION GAL	LONS)					
OF		TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,500	5,500	/5	-			-		-	-	-			-	-	
1981		•	-	-	-	-	-	_	_		_	-	_	-	-	
1982			-	-	_	_		_	_		_	-	-			
1983			-	-		-	-		-	_	-		-	-	_	
1984	5,809	5,809	35.0	32.0	36.0	39.0	68.0	72.0	87.0	75.0	69.0	42.0	38.0	38.0	631.0	
1985	5,895	5,895	51.0	49.0	33.0	38.0	60.0	75.0	91.0	96.0	69.0	55.0	43.0	45.0	705.0	
1986	3,075	3,073	-	-	-	50.0	-		,,,,		07.0	JJ.0	43.0	45.0	703.0	
1987			-	-	-	-	_				_	_	-	_		
1988	6,216	6,216	38.0	28.0	29.0	41.0	53.0	69.0	88.0	85.0	70.0	65.0	44.0	36.0	646.0	
1989	6,426	6,426	40.0	49.0	33.0	54.0	64.0	73.0	94.0	92.0	77.0	57.0	39.0	35.0	707.0	
1990	6,801	6,801	44.0	32.0	34.0	33.0	47.0	65.0	79.0	81.0	75.0	64.0	38.0	37.0	629.0	
	PERSONS															
YEAR	PER	POPULA-				-	PER CAP	ITA WATE	R USE ((gpcd)/3	5			-	ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	1.82	10,000	-	-		-	-	-	-	-	-			-	-	-
1981	1.86		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	1.90		-	-	-	-	-	-	-	-	-	-	-		-	-
1983	1.93		-	-	-		-	-	-	-	-	-	-	-	-	-
1984	1.97	11,462	99	96	101	113	191	209	245	211	201	118	111	107	151	0.169
1985	2.01	11,860	139	148	90	107	163	211	248	261	194	150	121	122	163	0.182
1986	2.05		-		-	-		-				-				-
1987	2.09		-	-	-	-	-	-	-	-	-	-		-		
1988	2.13	13,228	93	73	71	103	129	174	215	207	176	159	111	88	134	0.150
1989	2.17	13,924	93	126	76	129	148	175	218	213	184	132	93	81	139	0.156
1990	2.21	15,000	95	76	73	73	101	144	170	174	167	138	84	80	115	0.129
AVERAGE			103	104	82	105	147	183	219	213	184	139	104	96	140	0.157

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants,
4/ afpca - acre-feet per capita annually fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

	SAN BERN				GENCY							ORIGIN	OF WATE	R (in p	ercent):	
	.VICTORVII			TYPE OF	AGENCY	• • • • • • •	PUBLIC	WATER D	ISTRICT							
	#							_					CE WATE		-	
	GIC REGION G SUBAREA				1	SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
	SUBAKEA			KIVEK	ENT	IDE CIT	Υ									
DAU #			309				Y PLUS									
CITY CEI	ISUS POPUL	ATTON					THE CI			Х		SOURCE	OF WATE	K (in p	ercent):	
	1303 POPUL											DUDCH	ASED			
		•			UIN	EK	• • • • • • • • • • • • • • • • • • • •	•••••					SUPPLIE			
1990.		40,014			SERVICE	CONNEC	TIONS	/1				SELF	SUPPLIE	υ	100	
RESIDENT	TTAL •			COMMERC		CONNEC		INDUSTR	TAL .			GOVERNM	ENTAL .			
	ed	11 6/3			ed	823			ed	4			ed	340		
	Rate	•			Rate				Rate				Rate	0		
reac r	(acc			rtat	Nate			rtat	Kate	U		rtat	Kate	U		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER IN	TO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	CTIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	5,368	5,368	71.0	61.0	66.0	118.0	135.0	218.0	266.0	245.0	223.0	192.0	189.0	105.0	1889.0	
1981	5,587	5,587	92.0	89.0	108.0	189.0	244.0	304.0	322.0	301.0	285.0	172.0	139.0	116.0	2361.0	
1982	6,203	6,203	96.0	94.0	110.0	157.0	235.0	267.0	317.0	304.0	236.0	191.0	110.0	92.0	2209.0	
1983	6,933	6,933	101.0	85.0	109.0	163.0	247.0	296.0	330.0	287.0	276.0	179.0	147.0	119.0	2339.0	
1984	8,000	8,000	122.0	139.0	199.0	233.0	314.0	331.0	335.0	342.0	304.0	231.0	170.0	123.0	2843.0	
1985	8,306	8,306	122.0	137.0	192.0	259.0	319.0	378.0	413.0	401.0	301.0	273.0	166.0	137.0	3098.0	
1986	9,291	9,291	147.0	135.0	193.0	245.0	354.0	412.0	433.0	440.0	337.0	253.0	207.0	150.0	3306.0	
1987	10,763	10,763	139.0	148.0	191.0	276.0	339.0	398.0	455.0	453.0	360.0	284.0	179.0	169.0	3391.0	
1988	10,728	10,728	154.0	174.0	265.0	285.0	372.0	425.0	506.0	463.0	396.0	360.0	248.0	191.0	3839.0	
1989	11,411	11,411	165.0	168.0	282.0	373.0	415.0	478.0	555.0	515.0	425.0	371.0	281.0	234.0	4262.0	
1990	12,810	12,810	199.0	189.0	301.0	351.0	418.0	477.0	558.0	497.0	457.0	380.0	295.0	231.0	4353.0	
	PERSONS	AVERAGE														
YEAR	PER	POPULA-					PER CAP	ITA WAT	ER USE	(gpcd)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpo
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.65	14,220	161	148	150	277	306	511	603	556	523	436	443	238	364	0.40
1981	2.70	15,094	197	211	231	417	521	671	688	643	629	368	307	248	429	0.48
1982	2.75	17,085	181	197	208	306	444	521	599	574	460	361	215	174	354	0.39
1983	2.81	19,460	167	156	181	279	409	507	547	476	473	297	252	197	329	0.36
1984	2.86	22,876	172	210	281	340	443	482	472	482	443	326	248	173	340	0.38
1985	2.91	24,188	163	202	256	357	425	521	551	535	415	364	229	183	351	0.39
1986	2.96	27,545	172	175	226	296	415	499	507	515	408	296	250	176	329	0.36
1987	3.02	32,476	138	163	190	283	337	409	452	450	370	282	184	168	286	0.32
1988	3.07	32,934	151	182	260	288	364	430	496	453	401	353	251	187	319	0.35
1989	3.12	35,632	149	168	255	349	376	447	502	466	398	336	263	212	328	0.36
1990	3.18	40,674	158	166	239	288	332	391	443	394	375	301	242	183	293	0.32
AVERAGE			164	180	225	316	397	490	533	504	445	338	262	194	338	0.37
			104	100	223	210	371	470	223	200	443	330	202	1270	220	0.31

^{1/} Number of services 3/ gpcd - gallons per capita daily
2/ Excludes services for agriculture, fire hydrants, 4/ afpca - acre-feet per capita annually fire protection, and other agencies.

Figure A-12. Colorado River Region

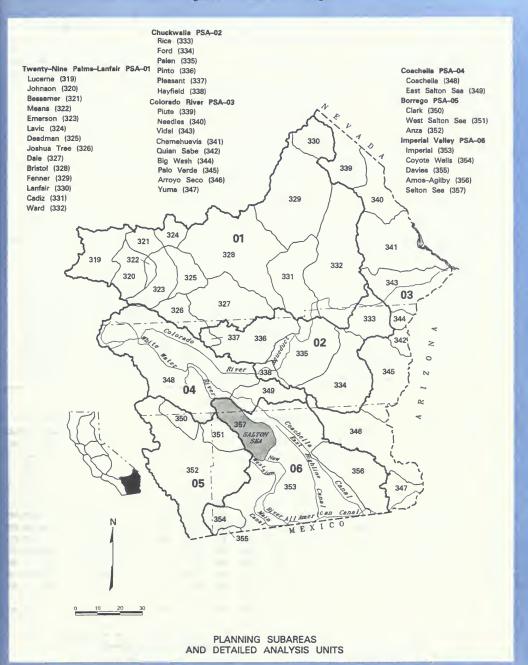


Table A-12. Colorado River Region Water Production and Per Capita Water Use

COUNTY.	SAN BERNA	ARDINO	1	HATER A	GENCY	Т	WENTYNI	NE PALM	S WATER	DISTRI	CT (ORIGIN C	F WATER	(in pe	ercent):	
CITY	.TWENTYNIN	NE PALMS		TYPE OF	AGENCY.	Р	UBLIC &	ATER DI	STRICT							
SYSTEM #	#		36049									SURFAC	E WATER		0	
HYDROLOG	GIC REGION		COLORADI	RIVER		SYSTEM	SERVES	:				WELLS	AND SPR	INGS	100	
PLANNING	SUBAREA	#	TWENTYN	INE PALI	MS-LANFA	IR										
DAU #			327		ALL	IN THE	CITY									
					ALL	IN THE	CITY PL	US OUTS	IDE	х		SOURCE C	F WATER	(in pe	ercent):	
CITY CE	ISUS POPUL	ATION			PART	LY IN T	HE CITY	ONLY								
1980		9,600			OTHE	R						PURCHA	SED		0	
													UPPLIED		100	
					SERVICE	CONNECT	TONS: 1	,				000			100	
RESIDENT	TAL:			COMMERC				NDUSTRI	A1 -			GOVERNME	NTAL .			
	ed	4,626	Ì		ed	742		Metere	-	NA			d	NA		
	Rate				Rate	0		Flat R		0				0		
1100	\atc	. •		react	vare	·		rtat K	ate	U		rtat R	ate	U		
YEAR	ACTIVE	SERVICE				OTAL WA	TED INT	O CYCTE	M (MTII	TON CAL	ONE					
OF	CONNECTIO					UIAL MA	IEW THE	O 3131E	n (MILL	ION GAL	LONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	1000	Dee	ANDRES	
KECOKD	313164	6111	JAR	FEB	PIAR	MFK	ma r	JUN	JUL.	AUG	SEP	UL1	NOV	DEC	ANNUAL	
1980	3,000	3,000	/5		/6										_	
1981	3,000	3,000	,,	-	,-	_	_			_				_		
1982			_	_	_	-		-	_					-	-	
1983	3,838	3,838			_	-			77	69	70	57	44	37	•	
1984	4,002	4,002	42	40	54	52	61	70	77	69	70				-	
1985	•		45		54	70						57	44	37	673.0	
	4,215	4,215		41			77	85	98	86	62	63	50	39	770.0	
1986	4,271	4,271	60 39	45 45	45	60	70	68	87	85	81	73	59	53	786.0	
1987	4,316	4,316			53	58	78	103	99	86	91	70	47	49	818.0	
1988	5,539	4,892	56	47	62	68	83	80	109	96	84	69	64	62	880.0	
1989	6,088	5,136	51	54	63	76	96	102	110	95	90	67	55	40	899.0	
1990	6,212	5,401	36	42	65	71	92	102	112	103	82	80	68	55	908.0	
		AVERAGE				_						•				
YEAR	PER	POPULA-				PI	ER CAPI	TA WATE	R USE (gpcd)/3				,	INNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14
1980	3.20	9,600		_	_	_										
1981	3.10	,,550	_	_	_			_		_		_	_			
1982	3.00		_	_	_			_								
1983	2.90	11,117	_		_	_		-	223	200	210	165	132	107	-	
1984	2.80	11,187	121	123	156	155	176	209	222	199	209	164	131	107	165	0.185
1985	2.69	11,357	128	129	153	205	219	249	278	244	182	179	147	111	186	0.185
1986	2.59	11,076	175	145	131	181	204	205	253	248						
1987		•		149	159		234				244	213	178	154	194	0.218
1988	2.49	10,756	117			180		319	297	258	282	210	146	147	208	0.233
	2.39	13,243	136	122	151	171	202	201	266	234	211	168	161	151	182	0.204
1989	2.29	13,940	118	138	146	182	222	244	255	220	215	155	132	93	177	0.198
1990	2.19	13,596	85	110	154	174	218	250	266	244	201	190	167	130	183	0.205
AVERAGE			126	131	150	178	211	240	257	231	219	181	149	125	185	0.207
														14.5		3,20,

^{1/} Number of services.

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

^{4/} afpca - acre-feet per capita annually

^{5/ 1980} Connections are estimated.

^{6/} Missing data unavailable.

	SAN BERNA	RDINO						S, CITY				ORIGIN	OF WATER	(in p	ercent):	
	NEEDLES			TYPE OF	AGENCY	• • • • • • •	MUNICI	PAL WATE	R DEPAR	TMENT						
		•••••											CE WATER			
						SYSTE	M SERVI	ES:				WELLS	AND SPE	INGS	100	
		#		O RIVER												
DAU #	•••••	•••••	340													
								OUTSIDE		Х		SOURCE	OF WATER	(in p	ercent):	
	ISUS POPUL							ITY								
	• • • • • • • • • • • • • • • • • • • •	•			ОТНІ	ER			• • • • • • • •			PURCH	ASED	•••••		
1990	• • • • • • • • • • • • • • • • • • • •	5,777										SELF	SUPPL I E)	100	
					SERVICE	CONNEC	TIONS									
RESIDENT				COMMERC				INDUSTR				GOVERNM				
	d	•			ed	274		Meter	ed			Meter	ed	NA		
Flat R	ate	75		Flat	Rate	NA		Flat	Rate	2		Flat	Rate	NA		
YEAR OF		SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1980	1,521	1,491	/5		-	-		-	131.0	145.0	118.0	96.0	62.0	50.0	•	
1981	1,521	1,491	41.0	40.0	37.0	63.0	95.0	114.0	147.0	148.0	118.0	81.0	63.0	56.0	1003.0	
1982			-	-	-	-	-	-	-	-	-	-	-	-	-	
1983	1,598	1,569	-	-	-	-	-	-	131.0	130.0	104.0	68.0	57.0	37.0	-	
1984	1,598	1,569	37.0	44.0	56.0	76.0	106.0	120.0	145.0	138.0	114.0	96.0	103.0	60.0	1095.0	
1985	1,621	1,593	61.0	70.0	43.0	64.0	82.0	119.0	-	-	-	-	-		-	
1986	1,528	1,528	38.0	38.0	43.0	61.0	97.0	123.0	137.0	131.0	108.0	76.0	59.0	36.0	947.0	
1987	1,636	1,636	34.0	36.0	42.0	64.0	92.0	112.0	141.0	134.0	127.0	99.0	57.0	41.0	979.0	
1988	1,636	1,636	35.0	38.0	48.0	77.0	69.0	123.0	144.0	151.0	115.0	97.0	77.0	50.0	1024.0	
1989	1,734	1,734	40.0	41.0	53.0	86.0	106.0	124.0	143.0	151.0	141.0	108.0	67.0	51.0	1111.0	
1990	1,752	1,752	45.0	43.0	41.0	87.0	112.0	128.0	127.0	155.0	114.0	89.0	72.0	55.0	1068.0	
	PERSONS	AVEDACE														
YEAR	PERSONS	POPULA-					DED CAL	PITA WAT	ED HEE	(mod) (7				ANNUALLY	
OF	CONNEC-	TION					PER CAI	TIA WAT	EK USE	(gpcu)/	3					-6
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	gpcd /3	afpca /4
		SCREED				AFR	PALI	JON	JUL	nou	3CF		NOV	DEC	/3	/*
1980	2.88	4,374			-				966	1,069	899	708	472	369		
1981	2.92	4,438	298	322	269	473	690	856	1,068	1,076	886	589	473	407	619	0.693
1982	2.96	.,	-		-	-	-	-	.,	.,	-	-			-	-
1983	3.00	4,798			-	_		_	881	874	723	457	396	249		
1984	3.04	4,865	245	312	371	521	703	822	961	915	781	637	706	398	617	0.691
1985	3.09	5,003	393	500	277	426	529	793	,01	,,,	701	-	,00	370	-	0.071
1986	3.13	4,781	256	284	290	425	655	858	924	884	753	513	411	243	543	0.608
1987	3.17	5,188	211	248	261	411	572	720	877	833	816	616	366	255	517	0.579
1988	3.21	5,257	215	249	295	488	423	780	884	927	729	595	488	307	534	0.598
1989	3.26	5,645	229	259	303	508	606	732	817	863	833	617	396	291	539	0.604
1990	3.30	5,777	251	266	229	502	625	739	709	866	658	497	415	307	506	0.567
AVERAGE			262	305	287	469	600	787	899	923	786	581	458	314	554	0.620
AVERAGE			202	303	201	407	000	101	077	143	100	201	400	314	224	0.020

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{5/} Missing data unavailable.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTYRIVERSIDE WATER AGENCYBANNING, CITY OF ORIGIN OF WATE CITYBANNING TYPE OF AGENCYMUNICIPAL WATER DEPARTMENT SYSTEM #	ER PRINGS.	. 0	
SYSTEM #	PRINGS.		
HYDROLOGIC REGIONCOLORADO RIVER SYSTEM SERVES: MELLS AND SP PLANNING SUBAREA #COACHELLA DAU #	PRINGS.		
PLANNING SUBAREA #COACHELLA DAU #		. 100	
DAU #			
ENTIRE CITY PLUS OUTSIDE SOURCE OF WATE			
CITY CENSUS POPULATION PORTION OF THE CITY	ER (in	percent):	
4000 4/ 020 07/07			
1980 14,020 OTHER PURCHASED			
1990 20,570 SELF SUPPLIE	ED	. 100	
SERVICE CONNECTIONS /1 RESIDENTIAL: COMMERCIAL: INDUSTRIAL: GOVERNMENTAL:			
Flat Rate D Flat Rate NA Flat Rate	. 0		
YEAR ACTIVE SERVICE TOTAL WATER INTO SYSTEM (MILLION GALLONS)			
OF CONNECTIONS /2			
RECORD SYSTEM CITY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV	DEC	ANNUAL	
1980 4,630 4,630 126.0 94.0 127.0 142.0 137.0 188.0 250.0 233.0 212.0 206.0 179.0	153.0	2047.0	
1981 4,850 4,850 88.0 70.0 64.0 77.0 119.0 138.0 198.0 192.0 170.0 123.0 96.0	86.0	1421.0	
1982 4,911 4,911 64.0 54.0 57.0 65.0 83.0 111.0 152.0 166.0 133.0 100.0 88.0	65.0	1138.0	
1983 5,358 5,358 123.0 109.0 126.0 112.0 132.0 151.0 187.0 201.0 195.0 247.0 222.0	155.0	1960.0	
1984 5,220 5,220 121.0 141.0 115.0 188.0 234.0 220.0 205.0 208.0 210.0 167.0 214.0	118.0	2141.0	
1985 5,226 5,226 87.0 117.0 142.0 135.0 204.0 217.0 265.0 253.0 219.0 206.0 169.0	116.0	2130.0	
1986 5,264 5,264 124.0 113.0 137.0 180.0 203.0 231.0 221.0 182.0 222.0 159.0 147.0	160.0	2079.0	
1987 5,800 5,800 127.0 122.0 128.0 195.0 232.0 272.0 253.0 285.0 281.0 198.0 129.0	142.0	2364.0	
1988 6,150 6,150 134.0 164.0 210.0 204.0 217.0 246.0 293.0 264.0 223.0 238.0 145.0	129.0	2467.0	
1989 6,500 6,500 110.0 111.0 133.0 189.0 195.0 267.0 325.0 323.0 266.0 243.0 164.0	149.0	2475.0	
1990 6,829 6,829 140.0 119.0 150.0 168.0 217.0 252.0 336.0 292.0 240.0 239.0 168.0	150.0	2471.0	
PERSONS AVERAGE			
YEAR PER POPULA- PER CAPITA WATER USE (gpcd)/3		ANNUALLY	
OF CONNEC- TION		gpcd	afpc
RECORD TION SERVED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV	DEC	/3	14
1980 3.03 14,020 290 231 292 338 315 447 575 536 504 474 426	352	400	0.448
1981 3.03 14,678 193 170 141 175 262 313 435 422 386 270 218	189	265	0.297
1982 3.02 14,855 139 130 124 146 180 249 330 360 298 217 197	141	210	0.239
1983 3.02 16,199 245 240 251 230 263 311 372 400 401 492 457	309	331	0.371
1984 3.02 15,773 247 308 235 397 479 465 419 425 444 342 452	241	372	0.417
1985 3.02 15,783 178 265 290 285 417 458 542 517 463 421 357	237	370	0.414
1986 3.02 15,890 252 254 278 378 412 485 449 369 466 323 308	325	358	0.401
1987 3.02 17,498 234 249 236 371 428 518 466 525 535 365 246	262	370	0.415
1988 3.02 18,544 233 305 365 367 377 442 510 459 401 414 261	224	364	0.408
1989 3.01 19,589 181 202 219 322 321 454 535 532 453 400 279	245	346	0.388
1990 3.01 20,570 220 207 235 272 340 408 527 458 389 375 272	235	329	0.369
AVERAGE 219 233 242 298 345 414 469 455 431 372 316	251	338	0.378

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY.	.RIVERSIDE			WATER A	GENCY		COACHEL	LA, CIT	Y OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	.COACHELL	1		TYPE OF	AGENCY	·	MUNICIE	PAL WATE	R DEPAR	TMENT						
		• • • • • • • • • •										SURFA	CE WATE	R	0	
		l				SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
PLANNING	G SUBAREA	#	COACHEL	.LA												
DAU #	• • • • • • • • •		348		ENT	TRE CIT	γ									
					ENT	IRE CIT	Y PLUS	OUTSIDE		X		SOURCE	OF WATE	R (in p	ercent):	
CITY CE	ISUS POPUL	ATION			POR	TION OF	THE CI	TY								
	• • • • • • • • •				OTH	ER						PURCH	ASED		0	
1990.	• • • • • • • • •	16,896										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC	TIONS	/1								
RESIDENT				COMMERC	IAL:			INDUSTR	IAL:			GOVERNM	ENTAL:			
Meter	ed	NA.		Meter	ed	. NA		Meter	ed	NA		Meter	ed	NA		
Flat F	Rate	. NA		Flat	Rate	NA.		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	SERVICE				TOTAL L	ATER IN	ITO SYST	EM (MIL	LION GA	LLONS)					
OF	CONNEC	CTIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	1,900	1,900	48.0	40.0	42.0	58.0	58.0	75.0	87.0	101.0	86.0	63.0	86.0	82.0	826.0	
1981	1,905	1,905	45.0	45.0	45.0	60.0	60.0	75.0	82.0	97.0	90.0	60.0	82.0	135.0	876.0	
1982	1,910	1,910	52.0	53.0	61.0	75.0	82.0	72.0	102.0	100.0	73.0	64.0	56.0	46.0	836.0	
1983	1,912	1,912	55.0	56.0	65.0	79.0	87.0	87.0	115.0	117.0	102.0	90.0	66.0	62.0	981.0	
1984	2,012	2,012	65.0	60.0	60.0	81.0	102.0	112.0	98.0	82.0	86.0	70.0	63.0	52.0	931.0	
1985	2,510	2,506	67.0	53.0	76.0	95.0	97.0	120.0	129.0	125.0	92.0	60.0	57.0	79.0	1050.0	
1986	2,500	2,500	45.0	42.0	62.0	77.0	110.0	130.0	138.0	142.0	96.0	66.0	47.0	43.0	998.0	
1987	2,627	2,627	77.0	76.0	83.0	105.0	122.0	134.0	132.0	135.0	113.0	90.0	77.0	70.0	1214.0	
1988	2,654	2,654	48.0	45.0	89.0	57.0	74.0	81.0	85.0	92.0	92.0	88.0	86.0	85.0	922.0	
1989	2,681	2,681	83.0	59.0	78.0	94.0	97.0	94.0	95.0	88.0	75.0	57.0	53.0	50.0	923.0	
1990	2,700	2,700	/5	-	-	-		-	-	-	-	-	-	-	-	
	PERSONS	AVERAGE			· ·											
YEAR	PERSONS	POPULA-					DED CAR	ITA WAT	ED LICE	(anad) (7				ANNUALLY	
OF	CONNEC-	TION					PER UAP	TIM WAT	EK USE	(gpcu)/	3					-4
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	gpcd /3	afpca /4
RECORD!	1104	SERVED	9/A			AFK		3016			3EF		NOV	DEC		/4
1980	4.80	9,129	170	151	148	212	205	274	307	357	314	223	314	290	248	0.278
1981	4.95	9,430	154	170	154	212	205	265	281	332	318	205	290	462	255	0.285
1982	5.10	9,732	172	194	202	257	272	247	338	331	250	212	192	152	235	0.264
1983	5.24	10,020	177	200	209	263	280	289	370	377	339	290	220	200	268	0.300
1984	5.39	10,837	193	191	179	249	304	345	292	244	265	208	194	155	235	0.264
1985	5.53	13,883	156	136	177	228	225	288	300	290	221	139	137	184	207	0.232
1986	5.68	14,191	102	106	141	181	250	305	314	323	225	150	110	98	193	0.216
1987	5.82	15,294	162	177	175	229	257	292	278	285	246	190	168	148	217	0.244
1988	5.97	15,837	98	98	181	120	151	170	173	187	194	179	181	173	160	0.179
1989	6.11	16,388	163	129	154	191	191	191	187	173	153	112	108	98	154	0.173
1990	6.26	16,896	~	-	-	-	-	-	-	-	-	•	-	-	•	-
AVERAGE			155	155	172	214	234	267	284	290	252	191	191	196	217	0.243
																210.10

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

^{5/}Missing data unavailable.

COUNTY	RIVERSIDE			WATER A	GENCY		.DESERT	WATER /	GENCY			ORIGIN	OF WATE	R (in i	percent):	
	PALM SPRI						PUBLIC									
SYSTEM #			33005									SURF/	CE WATE	R	. 4	
	IC REGION			O RIVER	t.	SYSTE	M SERVE	s:					AND SP			
PLANNING	SUBAREA	#	COACHEL	.LA												
DAU #			348		ENT	IRE CIT	гү									
					ENT	IRE CIT	TY PLUS	OUTSIDE		х		SOURCE	OF WATE	R (in	percent):	
CITY CEN	SUS POPUL	ATION					F THE CI									
												PURCI	ASED		. 0	
													SUPPLIE			
		•			SERVICE	CONNEC	CTIONS	/1								
RESIDENT	TAL:			COMMERC				INDUSTR	RIAL:			GOVERNA	MENTAL:			
	d	16.133			ed	2.298			ed	. NA			ed	NA		
	ate	•			Rate				Rate				Rate			
		•							Note: I				Nacc	•		
YEAR	ACTIVE	SERVICE				TOTAL V	ATER IN	ITO SYST	TEM (MIL	LION GA	ALLONS)					
OF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ		DEC		
1980	18,363	18,363	564.0	402.0	462.0	681.0	729.0	881.0	1023.0	977.0	1093.0	896.0				
1981	17,677	17,677	663.0	597.0	579.0	789.0	984.0	1075.0	1257.0	1274.0	1225.0	993.0	1017.0	636.0	11089.0	
1982	16,991	16,991	582.0	471.0	576.0	652.0	854.0	979.0	1038.0	1083.0	1015.0	944.0	758.0	607.0	9559.0	
1983	17,152	17,152	634.0	518.0	543.0	765.0	896.0	1278.0	1193.0	1154.0	993.0	895.0	911.0	725.0	10505.0	
1984	17,486	17,486	680.0	719.0	771.0	920.0	1076.0	1264.0	1235.0	1254.0	1188.0	1138.0	1062.0	729.0	12036.0	
1985	17,809	17,809	598.0	698.0	739.0	979.0	1107.0	1294.0	1428.0	1435.0	1243.0	1056.0	1064.0	665.0	12306.0	
1986	18,101	18,101	733.0	674.0	718.0	957.0	1146.0	1277.0	1340.0	1437.0	1354.0	998.0	1067.0	815.0	12516.0	
1987	18,375	18,375	763.0	793.0	724.0	988.0	1253.0	1334.0	1456.0	1456.0	1368.0	1112.0	977.0	1150.0	13374.0	
1988	18,255	18,255	705.0	732.0	993.0	1067.0	1326.0	1399.0	1505.0	1455.0	1217.0	1280.0	987.0	843.0	13509.0	
1989	18,523	18,523	782.0	759.0	1013.0	1182.0	1358.0	1586.0	1598.0	1415.0	1241.0	1281.0	1071.0	907.0	14193.0	
1990	18,686	18,686	785.0	733.0	927.0	1115.0	1301.0	1303.0	1609.0	1497.0	1184.0	1250.0	1082.0	882.0	13668.0	
																-1
WEAR	PERSONS						DED 011			day and his	.7	•				
YEAR	PER	POPULA-					PER CAP	TIA WA	TER USE	(gpca)/	/3				ANNUALLY	
OF	CONNEC-	TION								****	050		11014	250	gpcd	afpc
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	2.01	37,000	492	375	403	614	636	794	892	852	985	781	771	705	694	0.777
1981	2.06	36,427	587	585	513	722	871	984	1,113	1,128	1,121	879	931	563	834	0.934
1982	2.11	35,790	525	470	519	607	770	912	936	976	945	851	706	547	732	0.820
1983	2.15	36,914	554	501	475	691	783	1,154	1,043	1,008	897	782	823	634	780	0.873
1984	2.20	38,433	571	645	647	798	903	1,096	1,037	1,053	1,030	955	921	612	858	0.96
1985	2.24	39,958	483	624	597	817	894	1,079	1,153	1,158	1,037	853	888	537	844	0.94
1703	2.29	41,441	571	581	559	770	892	1,027	1,043	1,119	1,089	777	858	634	827	0.927
1986			C7/	660	544	768	942	1,036	1,095	1,095	1,063	836	759	865	854	0.95
	2.34	42,909	574	000	244											
1986	2.34 2.38	42,909 43,464	523	581	737	818	984	1,073	1,117	1,080	933	950	757	626	852	0.954
1986 1987				581					1,117 1,147		933 920	950 919	757 794	626 651	852 865	
1986 1987 1988	2.38	43,464	523	581	737	818		1,176	•	1,015						0.954

^{1/} Number of services

^{3/} gpcd - gallons per capita daily

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{4/} afpca - acre-feet per capita annually

^{*} High values due to tourism industry and large number of golf courses and landscape areas.

	RIVERSIDE				GENCY		-					ORIGIN	OF WATE	R (in p	ercent):	
	INDIO			TYPE OF	AGENCY	• • • • • • •	MUNICIP	AL WATE	R DEPT.							
		• • • • • • • • • • • • • • • • • • • •										SURFA	CE WATE	R	0	
		• • • • • • • •				SYSTE	M SERVE	S:				WELLS	AND SP	RINGS	100	
		#		.LA												
W #	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	348				Υ									
							Y PLUS			X		SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL						THE CI									
	• • • • • • • • •	-			OTH	ER	• • • • • • • •	• • • • • • • •	• • • • • • •				ASED			
1990	• • • • • • • • • • • • • • • • • • • •	36,793										SELF	SUPPLIE	D	100	
					SERVICE	CONNEC										
SIDENT				COMMERC				INDUSTR				GOVERNM				
	d	NA			ed	NA			ed	NA			ed	NA		
Flat Re	ate	NA		Flat	Rate	NA		Flat	Rate	NA		Flat	Rate	NA		
YEAR	ACTIVE	CEDVICE				TOTAL II	ATER IN	TO CVCT	CM (MI)	100 04	LLONGS					
OF		TIONS /2				IVIAL W	ATER IN	10 2121	CH (HIL	LIUN GA	LLUMS)					
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	3131EA		JAN	LEB	FEAR	AFR	mai	JUN	JUL	AUG	SEF	UC1	NOV	DEC	MINUNE	
1980	5,966	5.966	149.0	126.0	156.0	172.0	261.0	334.0	389.0	362.0	399.n	202.0	217.0	188.0	3045.0	
1981	5,785		166.0		176.0											
1982	5,873		171.0		197.0										3169.0	
1983	6,092	-,	194.0		193.0											
1984	6,453		194.0		251.0											
1985	6,696		189.0	194.0	248.0		379.0			460.0					3811.0	
1986	6,813	6,441	216.0	191.0	269.0	318.0	404.0	447.0	457.0	473.0	372.0	323.0	273.0	243.0	3986.0	
1987	6.849	6.477	234.0	237.0	263.0	346.0	420.0	452.0	479.0	403.0	387.0	334.0	224.0	228.0	4007.0	
1988	7,076	6,776	223.0	226.0	301.0	298.0	414.0	451.0	489.0	466.0	400.0	378.0	291.0	273.0	4210.0	
1989	7,417	7,117	246.0	242.0	325.0	388.0	457.0	482.0	479.0	468.0	387.0	335.0	225.0	228.0	4262.0	
1990	7,338	6,960	207.0	243.0	320.0	364.0	443.0	289.0	528.0	480.0	422.0	356.0	325.0	269.0	4246.0	
	PERSONS	AVEDACE														
EAR	PER	POPULA-					PER CAP	ITA UAT	FR LISE	(ancd)/	3				ANNUALLY	
OF	CONNEC-	TION					I LK G		-11 002	(Spou))	_				gpcd	afg
CORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	/3	14
1980	3.62	21,611	222	201	233	265	390	515	581	540	615	436	335	281	386	0.4
1981	3.79	21,918	244	256	259	359	443	549	592	571	511	378	333	274	398	0.4
1982	3.96	23,229	237	264	274	366	435	492	544	499	438	382	309	239	374	0.4
1983	4.12	25,109	249	228	248	327	430	499	542	420	418	337	308	253	356	0.3
1984	4.29	27,670	226	254	293	336	433	476	451	442	408	345	288	203	347	0.3
1985	4.45	29,826	204	232	268	346	410	488	506	498	389	348	272	230	350	0.3
1986	4.62	31,481	221	217	276	337	414	473	468	485	394	331	289	249	347	0.3
1987	4.79	32,787	230	258	259	352	413	460	471	396	393	329	228	224	335	0.3
1988	4.95	35,051	205	222	277	283	381	429	450	429	380	348	277	251	329	0.3
1989	5.12	37,975	209	228	276	341	388	423	407	398	340	285	198	194	307	0.3
		70 704	172	224	266	313	368	248	439	399	363	296	279	224	300	0.33
1990	5.29	38,791	1/2	224	200	313	300	240	437	377	303	270	217	224	300	V.3

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY	PAL WATER DEPART	X NA NA	SURF/ WELLS SOURCE PURCH SELF GOVERNM Heter	OF WATE	RRINGS	0 ercent): 100	
SYSTEM #	CUTSIDE /1 INDUSTRIAL: Metered Flat Rate	X NA NA	SOURCE PURCI SELF GOVERNM	OF WATE WASED SUPPLIE MENTAL: red	RINGS R (in p	0 ercent): 100	
HYDROLOGIC REGION	/1 INDUSTRIAL: Metered Flat Rate	NA NA	SOURCE PURCI SELF GOVERNM	OF WATE WASED SUPPLIE MENTAL: red	RINGS R (in p	0 ercent): 100	
PLANNING SUBAREA # IMPERIAL VALLEY	/1 INDUSTRIAL: Metered Flat Rate	NA NA	SOURCE PURCI SELF GOVERNM	OF WATE	R (in p	ercent):	
DAU #	/1 INDUSTRIAL: Hetered Flat Rate	NA NA	PURCI SELF GOVERNI Neter	HASED SUPPLIE MENTAL:	D5	100	
ENTIRE CITY PLUS CITY CENSUS POPULATION PORTION OF THE C 1980	/1 INDUSTRIAL: Hetered Flat Rate	NA NA	PURCI SELF GOVERNI Neter	HASED SUPPLIE MENTAL:	D5	100	
CITY CENSUS POPULATION PORTION OF THE C 1980	/1 INDUSTRIAL: Metered Flat Rate	NA NA	PURCI SELF GOVERNI Neter	HASED SUPPLIE MENTAL:	D5	100	
1980 14,946 OTHER	/1 INDUSTRIAL: Wetered Flat Rate	NA	SELF GOVERNI Meter	SUPPLIE	5		
1990 18,923 SERVICE CONNECTIONS RESIDENTIAL: COMMERCIAL: Metered 0 Metered 54 Flat Rate 6,451 Flat Rate 382 YEAR ACTIVE SERVICE TOTAL WATER I OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY	/1 INDUSTRIAL: Metered Flat Rate	NA	SELF GOVERNI Meter	SUPPLIE	5		
SERVICE CONNECTIONS RESIDENTIAL: Metered	INDUSTRIAL: Metered Flat Rate	NA	GOVERNI Neter	MENTAL:	. 5	0	
RESIDENTIAL: COMMERCIAL: Metered	INDUSTRIAL: Metered Flat Rate	NA	Meter	red	_		
Metered	Metered Flat Rate	NA	Meter	red	_		
Flat Rate 6,451 Flat Rate 382 YEAR ACTIVE SERVICE TOTAL WATER I OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY	Flat Rate	NA			_		
YEAR ACTIVE SERVICE TOTAL WATER I OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY			Flat	Rate	50		
OF CONNECTIONS /2 RECORD SYSTEM CITY JAN FEB MAR APR MAY	NTO SYSTEM (MILI	LION GALLONS					
RECORD SYSTEM CITY JAN FEB MAR APR MAY			S)				
	Y JUN JUL	AUG S	EP OCT	NOV	DEC	ANNUAL	
1980 4,541 4,541 89.0 87.0 98.0 156.0 182.0	230.0 254.0	248.0 207	.0 183.0	142.0	114.0	1990.0	
1981 4.712 4.712 96.0 94.0 112.0 147.0 177.0						2028.0	
1982 4,855 4,855 131.0 123.0 139.0 181.0 217.0						2210.0	
1983 4,963 4,963 135.0 121.0 139.0 175.0 218.0		210.0 219			165.0	2278.0	
		214.0 198				1919.0	
		293.0 234				2302.0	
						2216.0	
	252.0 263.0						
1987 5,924 5,924 100.0 109.0 148.0 189.0 229.0		261.0 222				2217.0	
1988 6,131 6,131 115.0 108.0 157.0 161.0 216.0						2216.0	
1989 6,540 6,540 123.0 118.0 185.0 230.0 266.0				167.0			
1990 6,942 6,942 145.0 149.0 184.0 195.0 229.0	249.0 272.0	243.0 215	.0 199.0	164.0	145.0	2389.0	
PERSONS AVERAGE							
YEAR PER POPULA- PER CA	PITA WATER USE	(gpcd)/3				ANNUALLY	
OF CONNEC- TION						gpcd	af
ECORD TION SERVED JAN FEB MAR APR MAY	JUN JUL	AUG SI	EP OCT	NOV	DEC	/3	1
1980 3.29 14.946 192 201 212 348 393	513 548	535 4	62 395	317	246	365	0.4
1981 3.23 15,242 203 220 237 321 375			75 364	291	275	365	0.4
1982 3.18 15,430 274 285 291 391 454			67 397	305	230	392	0.4
1983 3.12 15,493 281 279 289 377 454		437 4	71 421	381	344	403	0.4
1984 3.07 15,691 275 262 294 346 430	484 397	440 4	21 321	217	123	335	0.3
1985 3.01 15,455 177 233 294 416 495	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		05 369	334	269	408	0.4
1986 2.95 15,371 283 283 338 375 502			90 344		208	395	0.4
1987 2.90 17,153 188 227 278 367 431			31 359		207	354	0.3
1988 2.84 17,406 213 214 291 308 400			35 385	324	252	349	0.3
1989 2.78 18,197 218 232 328 421 472			60 381	306	284	386	0.4
1990 2.73 18,923 247 281 314 343 390			79 339	289	247	346	0.3
201 214 343 390	437 404	414 3	7 337	209	241	J-40	0.2
VERAGE 232 247 288 365 436	5 509 521	499 4	54 371	295	244	372	0.4

^{1/} Number of services

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily

^{4/} afpca - acre-feet per capita annually

COUNTY	IMPERIAL		1	HATER A	GENCY		CALEXIO	ο, CITY	OF			ORIGIN	OF WATE	R (in p	ercent):	
CITY	CALEXICO			TYPE OF	AGENCY		MUNICI	PAL WATE	R DEPAR	TMENT						
SYSTEM #		13002									SURFACE WATER			100		
HYDROLOG	IC REGION	(COLORADO RIVER SYSTEM SERVES:								WELLS AND SPRINGS 0					
PLANNING	SUBAREA	#	IMPERIA	L VALLE	Y											
DAU #			353		ENT	IRE CIT	Υ									
								OUTSIDE				SOURCE	OF WATE	R (in p	ercent):	
	SUS POPUL							ΙΤΥ								
1980 14,412					OTH	ER						PURCHASED SELF SUPPLIED			NA	
1990	• • • • • • • •	18,633										SELF	SUPPLIE	D	NA	
					SERVICE	CONNEC	TIONS									
RESIDENT	IAL:		COMMERCIAL:			INDUSTRIAL						GOVERNMENTAL:				
Metered 3,274		Metered		288		Metered				Meter		60				
Flat R	ete	0		Flat	Rate	0		Flat	Rate	. 0		Flat	Rate	0		
YEAR	ACTIVE	SERVICE				TOTAL W	ATER II	NTO SYST	EM (MIL	LION GA	LLONS)					
DF	CONNEC	TIONS /2														
RECORD	SYSTEM	CITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1980	2,877	2,833	88.0	66.0	81.0	107.0	114.0	139.0	131.0	125.0	123.0	116.0	112.0	102.0	1304.0	
1981	2,905	2,861	79.0	90.0	93.0	85.0	105.0				130.0		110.0		1282.0	
1982	2,960	2,915	80.0	78.0	85.0	108.0	125.0		155.0	148.0	106.0	50.0	41.0		1135.0	
	•			36.0	64.0	89.0	99.0		147.0		115.0		92.0		1121.0	
1983	3,013	2,967	40.0						199.0	142.0	128.0		90.0		1432.0	
1984	3,123	3,077	77.0	87.0	112.0	113.0	149.0					115.0				
1985	3,331	3,271	77.0	83.0	94.0	111.0	134.0					107.0	99.0		1381.0	
1986	3,407	3,360	91.0	83.0	113.0	116.0	131.0		144.0		127.0	107.0	94.0	85.0	1381.0	
1987	3,442	3,395	92.0	89.0	105.0		127.0				135.0	109.0	93.0	88.0	1399.0	
1988	3,494	3,449	89.0	87.0	104.0	105.0	129.0		180.0		163.0	141.0	111.0	92.0	1546.0	
1989	3,531	3,486	78.0	82.0	112.0	129.0		153.0	169.0		152.0	130.0	110.0		1522.0	
1990	3,629	3,584	95.0	91.0	113.0	123.0	149.0	167.0	177.0	164.0	153.0	137.0	134.0	139.0	1642.0	
		AVERAGE									-				***********	
YEAR	PER	POPULA-	PER CAPITA WATER USE (gp							(gpca)/	3				ANNUALLY	
OF	CONNEC-	TION													gpcd	afpca
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	/4
1980	5.09	14,636	194	155	179	244	251	317	289	276	280	256	255	225	244	0.273
1981	5.10	14,811	172	217	203	191	229	297	305	292	293	259	248	142	237	0.266
1982	5.11	15,124	171	184	181	238	267	269	331	316	234	107	90	79	206	0.230
1983	5.12	15,429	84	83	134	192	207	274	307	247	248	232	199	174	199	0.223
1984	5.13	16,027	155	187	225	235	300	304	401	286	266	231	187	149	245	0.274
1985	5.14	17,132	145	173	177	216	252	282	294	311	245	201	193	158	221	0.247
1986	5.15	17,560	167	169	208	220	241	290	265	252	241	197	178	156	215	0.241
1987	5.17	17,779	167	179	191	212	230	259	283	279	253	198	174	160	216	0.241
1988	5.18	18,087	159	166	185	194	230		321	312	300	251	205	164	234	0.262
1989	5.19	18,318	137	160	197	235	248		298	284	277	229	200	185	228	0.255
1990	5.20	18,867	162	172	193	217	255		303	280	270	234	237	238	238	0.267

^{1/} Number of services

AVERAGE

156 168 188 218 246 289 309 285

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capite daily

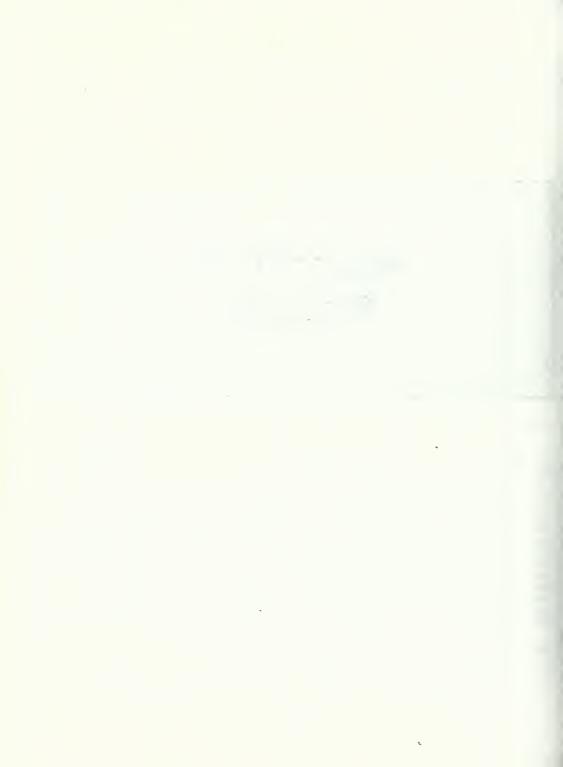
^{4/} afpca - acre-feet per capita annually

	IMPERIAL							RO, CIT			4	ORIGIN (OF WATE	R (in p	ercent):		
	EL CENTRO			TYPE OF	AGENCY		MUNICIP	AL WATE	R DEPAR	TMENT							
SYSTEM #										SURFA	100						
			COLORADO RIVER SYSTEM SERVES:									WELLS AND SPRINGS					
		#		L VALLE													
DAU #	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	353														
								OUTSIDE				SOURCE	OF WATE	K (In p	ercent):		
	SUS POPUL							τγ		.,					400		
	• • • • • • • • • • • • • • • • • • • •				OTH	EK		•••••	• • • • • • •	Х					100		
1990	• • • • • • • • •	31,384			00011100	COUNTO	71040					SELF	SUPPLIE	D	0		
05010507				SERVICE CONNECTIONS /1 COMMERCIAL: INDUSTRIAL:								00 500					
RESIDENTIAL: Metered 4,600			COMMERCIAL: II Metered 2,100						Metered 350				GOVERNMENTAL: Metered 33				
Metered 4 Flat Rate				Metered Flat Rate				Flat Rate		350		Metered		33 0			
Flat R	ate	0		rtat	kate	0		riat	kate	U		reat	kate	U			
YEAR				TOTAL W	ATER IN	LLONS)											
OF		TIONS /2					****		4.5	****							
RECORD	SYSTEM	CITY	KAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL		
1980	5,608		114.7	101.1	135.1	168.8	196.4	231.1	238.5	214.2	216.8	191.5	143.7	127.4	2079.3		
1981	5.970	5,970		117.4	138.6	178.9		241.2		229.7	213.3	177.1			2143.7		
1982	6.021	6.021		121.9				227.2					133.9	108.7	2061.4		
1983	6,500	6,500		100.4	127.3	155.5		236.8				185.8		128.1	2059.4		
1984	6,164	6,164		134.6	162.9	174.5		234.5			215.8	184.9	142.6	112.9	2151.4		
1985	6,229	•	119.1			190.4		248.4			187.9	157.4			2160.6		
1986	6,490	6,490	128.5	122.1	170.4	190.0	230.4	253.3	252.7	248.9	222.2	169.2	145.6	140.7	2274.0		
1987	6,534	6,534	138.0	134.7	167.9	198.6	231.5	257.5	276.1	256.8	235.0	190.7	151.6	140.1	2378.5		
1988	6,776	6,776	143.5	144.6	181.4	194.1	238.7	261.7	281.0	259.2	244.8	215.5	178.0	160.9	2503.4		
1989	6,800	6,800	145.7	154.6	198.0	221.1	254.6	276.5	294.2	271.6	252.3	222.6	180.1	166.2	2637.5		
1990	7,083	7,083	163.1	159.4	201.2	215.1	258.5	278.7	292.8	263.0	250.7	214.9	180.2	160.3	2637.9		
	PERSONS	AVERAGE															
YEAR	PER	·									•		ANNUALLY				
OF	CONNEC-	TION						•		.01					gpcd	afpc	
RECORD	TION	SERVED	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	/3	14	
1980	4.28	23,996	154	145	182	234	264	321	321	288	301	257	200	171	237	0.266	
1981	4.29	25,636	147	164	174	233	258	314	323	289	277	223	185	159	229	0.257	
1982	4.31	25,946	148	168	171	223	253	292	307	289	229	222	172	135	218	0.244	
1983	4.32	28,109	139	128	146	184	235	281	295	219	238	213	179	147	201	0.225	
1984	4.34	26,750	151	174	196	217	263	292	265	272	269	223	178	136	220	0.247	
1985	4.35	27,127	142	159	187	234	261	305	308	296	231	187	166	137	218	0.244	
1986	4.37	28,362	146	154	194	223	262	298	287	283	261	192	171	160	220	0.246	
1987	4.39	28,653	155	168	189	231	261	300	311	289	273	215	176	158	227	0.255	
1988	4.40	29,818	155	167	196	217	. 258	293	304	280	274	233	199	174	230	0.258	
1989	4.42	30,027	157	184	213	245	274	307	316	292	280	239	200	179	241	0.27	
	4.43	31,384	168	181	207	228	266	296	301	270	266	221	191	165	230	0.258	
1990		•															

^{2/} Excludes services for agriculture, fire hydrants, fire protection, and other agencies.

^{3/} gpcd - gallons per capita daily 4/ afpca - acre-feet per capita annually

Appendix B Glossary



Appendix B.

Glossary

Account: The fiscal status of one customer. For billing purposes, one account may include several apartment complex structures, and more than one connection, but under a single ownership.

Acre-foot (AF): a quantity or volume of water covering one acre to a depth of one foot; equal to 43,560 cubic feet or 325,851 gallons.

Applied Water Demand: the quantity of water delivered to the intake to a city's water system or factory, the farm headgate, or a marsh or other wetland, either directly or by incidental drainage flows (this is water for wildlife areas). For instream use, it is the portion of the stream flow dedicated to instream use or reserved under the federal or State Wild and Scenic Rivers acts.

Best Management Practice (BMP): an urban water conservation measure that the California Urban Water Conservation Council agrees to implement among signatory agencies.

Commercial Water Use: A broad class of urban water use including water deliveries to non-governmental office buildings, restaurants, retail services, and other business establishments and private golf courses and recreational facilities including transient lodging.

Connection: Customer service line through which water is delivered to a structure or other urban user (e.g., park, cemetery, golf course) from a water service agency.

Delivered Water: A part of total Applied Water Demand which is received by the end user.

Demand Hardening: A concept used to describe how rationing programs during periods of water shortage become less effective and/or more costly over time as established conservation practices such as BMPs reduce the potential for demand reduction.

Depletion: The water consumed within a service area or no longer available as a source of supply. For urban water use, it is evapotranspiration of applied water (ETAW) (water applied to landscaping or home gardens), sewage effluent that flows to a salt sink, and incidental evapotranspiration (ET) losses. For agriculture and wetlands, it is ETAW (and ET of flooded wetlands) plus irrecoverable losses. For instream use, it is the amount of dedicated flow that proceeds to a salt sink.

Detailed Analysis Unit (DAU): The smallest study area used by Department of Water Resources analyzing water demand and supply, generally defined by hydrologic features or boundaries of organized water service agencies. In the major agricultural areas, a DAU typically includes 100,000 to 300,000 acres.

Distribution Uniformity: The ratio of the average low-quarter depth of irrigation to the average depth of irrigation, for the entire farm field, expressed as a percentage.

Effluent: Waste water or other liquid, partially or completely treated or in its natural state, flowing from a treatment plant.

Effective Precipitation: That portion of precipitation that contributes to satisfying the evapotranspiration and/or leaching requirement of a crop, expressed as a depth in inches or feet. It includes the evapotranspiration provided by precipitation during the growing season or that which is carried over into the following growing season as stored soil moisture.

Evapotranspiration (ET): The quantity of water transpired (given off), retained in plant tissues, and evaporated from plant tissues and surrounding soil surfaces. Quantitatively, it is expressed in terms of depth of water per unit area during a specified period of time. As used in this report, evapotranspiration is synonymous with consumptive use.

Evapotranspiration of Applied Water (ETAW): The portion of the total evapotranspiration which is provided by irrigation.

Explanatory Variable: An independent variable (e.g., price, income, population) found through statistical analysis to be useful for explaining variation in a dependent variable (e.g., water consumption).

Flat-rate (unmetered) water deliveries: Unmeasured water delivered to residences, business establishments, and other urban water customers.

Governmental Water Use: A broad class of urban water use including water deliveries to all public facilities including military, educational, civic, publicly owned recreational facilities, and office buildings.

Gray Water: Waste water from a household or small commercial establishment. Gray water does not include water from a toilet, kitchen sink, dishwasher, or water used for washing diapers.

Gross Water Use: The total water produced and introduced into the system of a water service agency, as opposed to Delivered Water that includes losses due to line leakage, undocumented water use, back flucting on filters and lines, defective meters, and other diverted uses.

Hydrologic Region: A study area, consisting of one or more Planning Subareas.

Industrial Water Use: Intake water use applied for all manufacturing and other industrial plant uses as defined in the Standard Industrial Classification Manual.

Institutional Water Use: Water supplied to buildings housing organizations that are important in the life of a community or society, especially those dedicated to public service, as a university or place of confinement such as a mental or penal institution. Such water is variously classified as commercial or governmental. The Department of Water Resources classifies institutional water use as governmental.

Irrigation Efficiency: The efficiency of water application and use. Computed by dividing the evapotranspiration of applied water by the applied water and converting the result to a percentage.

Isohyet: A line drawn on a map connecting points receiving equal rainfall.

Net Water Demand: The amount of water needed in a water service area to meet all requirements. It is the sum of evapotranspiration of applied water (ETAW) in an area, the irrecoverable losses from the distribution system, and the outflow leaving the service area.

Normalized Data: Estimated values over time resulting from smoothing the graph of actual data points to minimize skewing. For example, the graph of per capita water use between 1980 and 1990 (Figure 2-2, Trends in Urban Per Capita Water Use) plots the statewide average of 183 gpcd in 1982, whereas a smoothed trend line passing through 1982 would show a normalized statewide value of nearly 200 gpcd.

Per-Capita Water Use: The water produced by or introduced into the system of a water supplier divided by the total residential population; normally expressed in gallons per-capita-per-day (gpcd).

Planning Subarea (PSA): An intermediate size study area consisting of one or more Detailed Analysis Unit(s).

Population: A water agency service area population includes permanent residents living within the service area. This excludes transient visitors, such as campers and vacationers.

Probabilistic: Involving a random variable; involving chance or probability; stochastic.

Produced Water: Water developed by a water supplier either from ground water or stream diversion, or purchased water; each source of which is introduced into the water supplier's water system.

Reclaimed Waste Water: Waste water that becomes suitable for a specific beneficial use as a result of treatment. See also Waste Water.

Reference Crop Evapotranspiration (ETo): The ET rate of healthy grass, completely covering the ground to a uniform height of 3 to 6 inches, and having an adequate supply of water and extensive fetch. ETo is estimated by using the University of California modified Penman equation developed for use in the California Irrigation Management Information System.

Residential Water Use: One of the four major classes of urban water use, and includes water service to single family and usually multiple-family dwelling structures and manufactured homes occupied by full time residents. This excludes hotel, motel, transient and recreational visitor water use, which are grouped in the broad Commercial Water Use category. See also Standard Industrial Classification.

Return Flow: The portion of withdrawn water not consumed by evapotranspiration or system losses which returns to its source or to another body of water.

Reuse: The additional use of water that has previously met an end use.

Salt Sink: A body of water too salty for most freshwater uses, generally the ocean or an inland basin with salty surface and/or ground water.

Self-produced Water: A water supply developed and used by an individual or entity, Also called "self-supplied."

Service Area: The geographical land area served by a distribution system of a water agency.

Standard Industrial Classification (SIC), defines the following categories:

Industrial, or Manufacturing, Division D, Major Group 20 to 39, includes establishments engaged in the mechanical or chemical transformation of materials or substances into new products. Industrial water use means intake water use applied to all manufacturing and plant uses, including cooling, processing, and sanitary.

Commercial includes all other establishments (Divisions C through I, excluding Divisions A (Agriculture), B (Mining), and J (Public administration).

Governmental, or Institutional (Division J) includes the executive, legislative, judicial administrative and regulatory activities of federal, state, local, international governments, and includes schools and military activities.

Transpiration: The process in which plant tissues give off water vapor to the atmosphere as an essential physiological process.

Type of Water Use: The four generally recognized types of urban water use: residential, commercial, industrial, and governmental. Also referred to as Sectors of Urban Water Use, or Classes of Water Use.

Unaccounted Water: The difference between the measured amount of water produced and introduced into the system, and the measured amount delivered to customers. Unaccounted water may be "authorized" or "unauthorized" losses. Authorized uses include fire-fighting, main and sewer flushing, street cleaning, and public uses such as irrigation for parks and golf courses, schools and cemeteries (some agencies measure these uses). Unauthorized uses may include distribution system leaks, metering errors, theft, and inaccurate system control.

Urban Applied Water Demand: The quantity of water delivered to the intake to a community water system or factory.

Urban Water Use: The use of water for urban purposes, including, but not limited to residential, commercial, industrial, and governmental classes. The term is applied in the sense that it is a type of use rather than a place of use; i.e., although most urban use occurs within a city or town, it also occurs outside of city boundaries, adjoining cities, and in rural areas.

Waste Water: The water remaining after use, liquid waste, or drainage from a community, industry, or institution.

Water Agency (or supplier, or purveyor): An entity (publicly or privately owned) that develops or purchases a supply of water for distribution and delivery to customers within its service area. A wholesale agency delivers water to other water suppliers for their customers.

Water Audit: A process of accounting for an agency's water from the source of supply, through the distribution system, to delivery.

Water Demand: The quantity of water required to support a given level and kind of land use.

Water Demand Schedule: A time distribution of the demand for prescribed quantities of water for specified purposes. It is usually a monthly tabulation of the total quantity of water that a particular water user intends to use during a specified year.

Water Meter: A device for measuring the amount of water delivered into a water distribution system, or to residences and business establishments.

Water Quality: Used to describe the chemical, physical, biological, and bacteriological characteristics of water usually in regard to its suitability for a particular purpose.

Water Reclamation: The planned reuse of waste water for specific beneficial purposes.

Water Requirement: The quantity of water required for a specified use under a predetermined or prescribed situation.

(Water) Withdrawals: A quantity of water produced or developed from surface and ground water sources. In this Bulletin, water withdrawn for retail or wholesale delivery to urban customers.

Weighted Mean: Averaged quantities expressed as sets of numbers to take into account numerically their weight (relative importance) to the total. When weights are all equal, the weighted mean reduces to that of the ordinary (arithmetic) mean.

Appendix C Bibliography



Appendix C.

for June and al Water 1050

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Appendix D Water Use and Depletions



Appendix D.

Water Use and Depletions

Chapter 2 discussed population growth and its relationship to per capita water use. Population density is another factor influencing per capita water use. As population per acre increases, per capita landscape area tends to decrease. Table D-1 shows changes in population density by county between 1980 and 1990. The historical urban water use trends shown in Table 2-1 indicate a recent leveling off of per capita water use in most areas of California, possibly due in part to higher population densities and water conservation efforts.

Chapter 1 introduced the terms net water use and depletion, represented graphically in Figure D-1. The interaction of net water use and depletion varies geographically. For example, along the coast, depletions are nearly equal to net water use since wastewater is discharged into the ocean and is lost or depleted from the fresh water system. Inland, less water is depleted because it is reused to recharge ground water or adds to instream flow available for reuse downstream.

~	July Pop	ulation ¹	Density (pop/sq ml)	Land Area ²	
County	1980	1990	1980	1990	(sq miles)	
Alameda	1,109,500	1,282,400	1,504.40	1,738.84	737.50	
Alpine	1,100	1,100	1.49	1.49	738.65	
Amador	19,500	30,600	32.91	51.64	592.57	
Butte	144,900	183,900	88.38	112.16	1,639.60	
Calaveras	20,900	32,500	20.49	31.86	1,020.19	
Colusa	12,900	16,400	11.21	14.25	1,150.78	
Contra Costa	658,500	810,300	914.22	1,124.97	720.29	
Del Norte	18,300	24,500	18.16	24.31	1,007.89	
El Dorado	86,500	128,200	50.54	74.91	1,711.48	
Fresno	517,400	673,900	86.77	113.01	5,963.21	
Glenn	21,500	25,000	16.35	19.01	1,314.88	
Humboldt	108,900	119,800	30.48	33.53	3,572.80	
Imperial	92,500	110,400	22.16	26.44	4,175.05	
Inyo	17,900	18,400	1.76	1.81	10,192.07	
Kern	406,100	549,800	49.88	67.53	8,141.60	
Kings	74,200	102,500	53.40	73.77	1,389.49	
Lake	36,800	51,100	29.24	40.61	1,258.46	
Lassen	21,800	27,800	4.78	6.10	4,557.49	
Los Angeles	7,500,300	8,897,500	1,847.38	2,191.52	4,059.98	
Madera	63,900	89,800	29.88	41.99	2,138.43	
Marin	222,700	231,200	428.45	444.81	519.78	
Mariposa	11,200	14,500	7.72	9.99	1,451.21	
Mendocino	67,000	81,000	19.09	23.08	3,509.28	
Merced	135,500	180,600	70.25	93.63	1,928.89	
Modoc	8,700	9,700	2.21	2.46	3,944.36	
Mono	8,700	10,200	2.86	3.35	3,044.49	
Monterey	292,100	358,800	87.93	108.01	3,321.94	
Napa	99,300	111,700	131.72	148.17	753.86	
Nevada	52,500	79,600	54.82	83.12	957.66	
Orange	1,944,800	2,424,100	2,462.77	3,069.72	789.68	
Placer	118,400	175,600	84.31	125.03	1,404.41	
Plumas	17,400	19,900	6.81	7.79	2,553.96	
Riverside	669,800	1,195,400	92.92	165.84	7,208.15	
Sacramento	787,900	1,051,400	815.89	1,088.75	965.69	
San Benito	25,200	37,000	18.14	26.64	1,389.13	

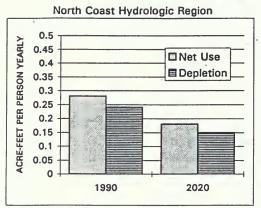
14010 D 1 (00)	ntinued). Comparison o July Pop	-		pop/sq mi)	
County	1980	1990	1980	1990	Land Area ² (sq miles)
San Bernardino	902,200	1,440,700	44,97	71.81	20,061.78
San Diego	1,873,300	2,520,500	445.55	599.48	4,204.48
San Francisco	680,500	723,900	14,571.42	15,500.74	46.70
San Joaquin	350,200	483,800	250.24	345.71	1,399.44
San Luis Obispo	156,600	219,500	47.39	66.42	3,304.50
San Mateo	588,100	652,100	1,309.48	1,451.98	449.11
Santa Barbara	300,000	371,400	109.55	135.62	2,738.47
Santa Clara	1,300,200	1,502,200	1,006.95	1,163.40	1,291.22
Santa Cruz	189,100	230,800	424.19	517.73	445.79
Shasta	116,600	148,800	30.80	39.31	3,785.66
Sierra	3,100	3,400	3.25	3.57	953.43
Siskiyou	40,000	43,800	6.36	6.97	6,287.26
Solano	237,200	345,700	286.42	417.43	828.17
Sonoma	301,400	392,000	191.22	248.70	1,576.21
Stanisłaus	267,700	376,100	179.12	251.65	1,494.56
Sutter	52,600	65,100	87.27	108.02	602.69
Tehama	39,100	50,100	13.25	16.98	2,951.05
Trinity	12,000	13,100	3.77	4.12	3,178.87
Tulare	247,400	314,600	51.28	65.21	4,824.32
Tuolumne	34,200	49,000	15.30	21.92	2,235.65
Ventura	532,200	671,600	288.31	363.82	1,845.95
Yolo	113,900	142,500	112.50	140.75	1,012.44
Yuba	49,800	58,700	78.99	93.11	630.45
Total	23,782,000	29,976,000	152.48	192.19	155,973.09

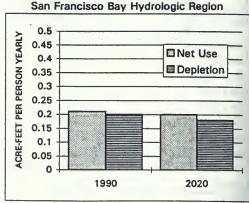
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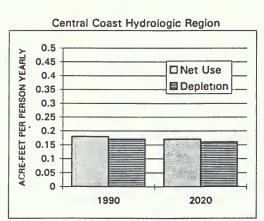
1 Population—Department of Finance, Report I 80-90, Intercensal Estimates of the Population of California: State and Counties 1980-1990, June 1991.

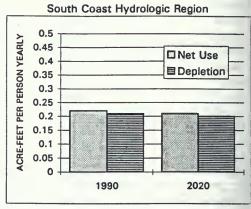
2 Land area—Sacramento Area Council of Governments, 1990 Census Geographic Areas Reference List, Part A., October 1991.

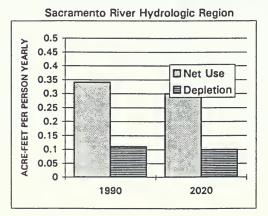
Figure D-1. Urban Water Net Use and Depletion











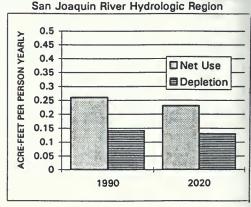
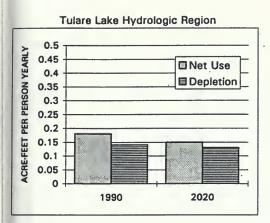
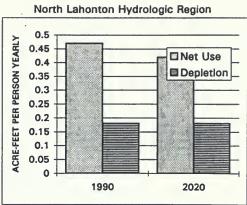
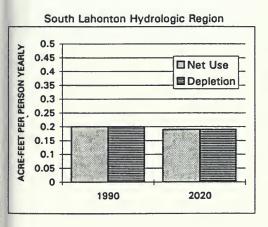
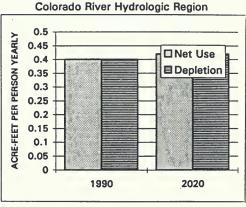


Figure D-1 (continued). Urban Water Net Use and Depletion











Appendix E Precipitation and Urban Landscaping



Appendix E. Precipitation and Urban Landscaping

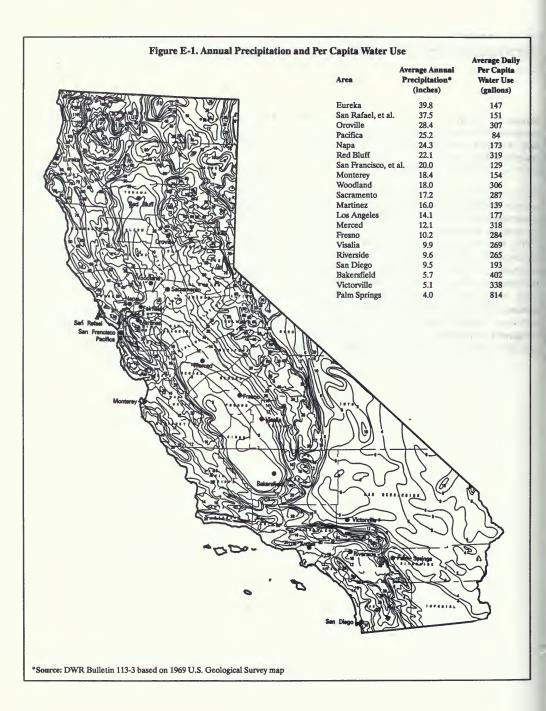
Variance in per capita water use is affected by a number of factors, as discussed in Chapter 3. Figure E-1 shows daily per capita water use of 20 communities relative to precipitation (see also Figure 3-1). Figure E-2 shows per capita use relative to July temperatures.

The concept of effective precipitation is related to soil moisture deficits (See definition in Appendix B). The Department used the concept of effective precipitation in estimates of vegetative water use in Bulletin 113-3 (1974). More recently, a study of effective precipitation on bare soil in the Central Valley developed a relationship between rainfall and soil moisture changes during the winter months as is shown in Figure E-3 (DWR, February 1989). The relationship illustrates that small amounts of rainfall (less than 1 inch per month) are ineffective and rainfall that is effective is never equal to the measured precipitation. The time when rainfall exceeds evaporative demand occurs during November through

February in most of California (in some desert areas this never occurs). Most plants extract the stored soil moisture in the spring and early summer.

The concepts of effective precipitation and soil-moisture deficit have been used effectively in agriculture but are more difficult to apply to urban landscaping. Irrigation management on a farm is optimized because the fields are normally large, planted to one variety of crop, and evenly spaced in rows. A similar situation exists in landscapes only on large playing fields. While individual homeowners cannot be expected to apply such concepts, urban water managers can use them to analyze and project monthly and yearly demands.

Tables E-1 and E-2 show some results of the application of the Department Agricultural Mobile Lab Program irrigation system evaluation techniques to urban land-scape. See also Chapter 3.



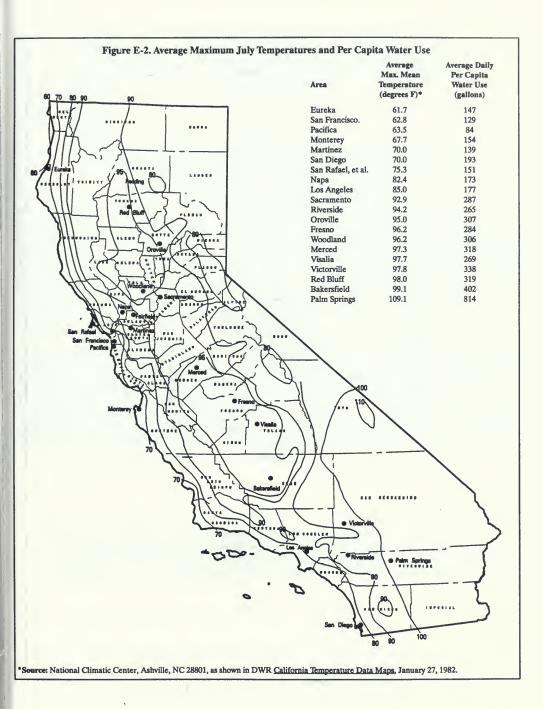
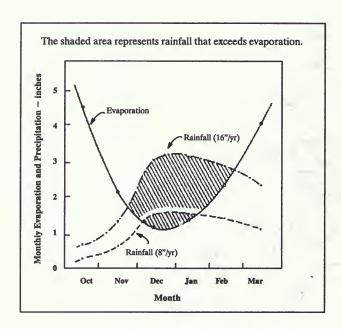


Figure E-3. Normal Monthly Evaporation and Rainfall for Two Precipitation Zones in the Central Valley



Evaporation

The period of greatest rainfall coincides with the period of lowest evaporative demand. Figure E-3 shows normal monthly rainfall and corresponding evaporation rates for two precipitation zones in the Central Valley. The shaded areas represent rainfall that exceeds evaporation. Although precipitation varies widely, evaporation rates are relatively constant throughout the Valley. Therefore, rainfall in excess of evaporation varies with the total amount of precipitation.

Source: Effective Precipitation (DWR Report, February 1989)

Table E-1. Distribution Uniformity Statistics for Landscapes Evaluated by the Mobile Irrigation Laboratory								
District	N	Mean	Min	Max	Range			
Riverside	107	61.9 a	35	90	55			
Coachella	170	61.9 a	35	85	50			
Mission	46	54.9 b	21	80	59			
Ventura	37	52.0 b	27	77	50			

California, Davis, 1993

Table E-2.	Estimated L			ensity, and I (K _L) for Se				termine th	е
ation Type	Spe	cies Factor	(K ₈)	Den	sity Factor	(K _d)	Microc	imate Facto	r (K _{mc})
ition type	high	avg	low	high	avg	low	high	avg	low
	0.0	0.5	0.0	4.0	4.0				

Vegetation Type	Spe	cies Factor	(K ₈)	Density Factor (K _d)			Microclimate Factor (K _{mc})		
vegetation type	high	avg	low	high	avg	low	high	avg	low
Trees ²	0.9	0.5	0.2	1.3	1.0	0.5	1.4	1.0	0.5
Shrubs	0.7	0.5	0.2	1.1	1.0	0.5	1.3	1.0	0.5
Groundcovers	0.7	0.5	0.2	1.1	1.0	0.5	1.2	1.0	0.5
Mixed ³⁻ trees, shrubs, groundcovers	0.9	0.5	0.2	1.3	1.1	0.6	1.4	1.0	0.5
Turfgrass ⁴	0.8	0.7	0.6	1.0	1.0	0.6	1.2	1.0	0.8

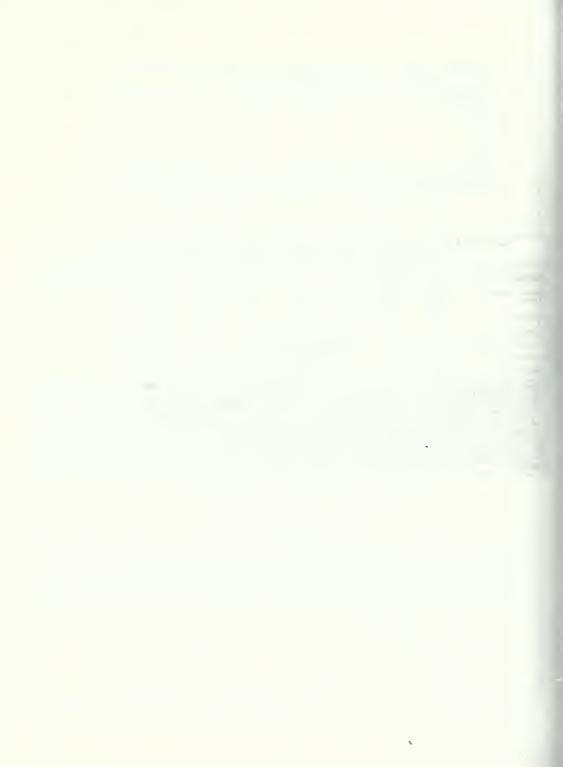
1 Species factor values for trees are estimates based on research from agricultural tree crops while groundcover estimates are based on preliminary The tree, shrub, and groundcover categories listed are for landscapes composed solely or predominantly of one of these vegetation types.

The tree, shrub, and groundcover categories listed are for landscapes composed solely or predominantly of one of these vegetation types.

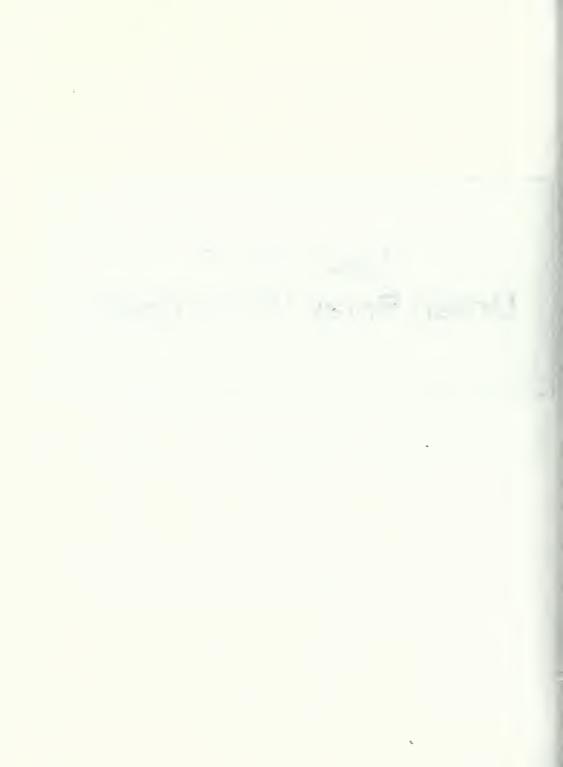
A low K, value (0.6) should be assigned to warm-season turf and a high value (0.8) to cool-season turf. Turfgrass values are included to provide irrigation managers with a complete table of coefficients used to estimate landscape water use.

Note: It is assumed that there is no bare soil surface within the landscape planting. Otherwise Kd should be increased 10 to 20 percent, especially for trees and shrubs due to soil surface evaporation.

Source: Estimating Water Requirements of Landscape Plantings: The Landscape Coefficient Method, UC Cooperative Extension Leaflet 21493, July 1991.



Appendix F Urban Retail Water Costs



Appendix F.

Urban Retail Water Costs

This appendix presents results of a 1990-91 survey of retail water costs for many agencies located throughout the State. Because of drought conditions at the time, many of these costs are higher than what would have been expected during a non-drought year.

Computing total water costs requires two types of information for each customer class: water use and rate structure. For single family residential customers, DWR compiled actual 1990-91 water use and rate structure information. The monthly service charge for a single family residential customer is based on either a 5/8 inch or 3/4 inch size meter, depending on the agency's rate structure.

Table F-1 summarizes single family residential seasonal monthly use and water cost information for 59 selected agencies. For each agency, the table shows the county and hydrologic region (See Figure 2-1 in Chapter 2), average summer water use per customer, average winter use, typical monthly summer and winter bills, and an equivalent cost per acre-foot estimate (which includes service and commodity charges). Also shown is the effective date of rates used in the computation.

Table F-1 shows that some of the higher bills are found in agencies located along the coast, such as Marin Municipal Water District, the City of Santa Barbara, Goleta Water District, and Monterey Peninsula Water Management District. Some of the lower bills are found in agencies located in the Central Valley, such as the cities of Sacramento and Fresno. Figure 4-2 in Chapter 4 compares residential retail water costs for eight selected cities.

Table F-2 gives average monthly residential water use and cost information of an additional 26 water agencies. For these agencies, seasonal water use information was not available. Hence, the table presents only average monthly water use and cost information.

Table F-3 and Table F-4 summarize average monthly water use and cost information for commercial and industrial customers for selected cities. In contrast to single family residential customers, which as a group tend to have similar water uses, it is difficult to define a *typical* commercial or industrial customer. This is particularly true for the industrial sector, which includes bakeries as well as oil refineries. Table F-3 and Table F-4 indicate that some of the higher commercial and industrial water costs are also found along the coast. Some of the lower costs are found in the Central Valley.

Figure F-1 illustrates how total water use costs are charged to single family residential users. The graphs show a comparison of total water use costs of selected agencies based on differing rate structures (excluding monthly service charges). Since rate strategies differ by agency, water costs for some accelerate faster for higher usage in some agencies. For example, the total water use costs for Los Angeles (LADWP) increase at a constant rate for additional water use; this represents a constant block structure. But the use costs for Pasadena switch to a higher rate after 15 ccf reflecting an increasing block structure. In addition, both cities have different water costs between summer and winter use, reflecting seasonal rate structures.

The remaining cities shown in Figure F-1 do not have seasonal rate structures. Water use costs for the City of Long Beach switch to a higher rate after 5 ccf, but the use costs for the City of Burbank increase at a constant rate. Water use costs for Santa Barbara switch after 4, 12, and 32 ccf due to the increasing block rate structure. In contrast, Goleta's water rate starts at a higher level than Santa Barbara but increases at a constant rate. For the City of San Jose, the water use costs switch to a higher rate after 4 ccf, but the additional water costs for the City of San Francisco increase at a constant rate.

Figure F-2 shows how retail commercial and industrial water costs (for a hypothetical monthly use of 100 ccf) are broken into the monthly service charge and the actual use charge. For example, the City of Sacramento does not levy a charge based on water use. The monthly water cost is based on the fixed service charge alone. In comparison, the City of Santa Barbara collects a greater proportion of the water bill through water use charges.

Since many complex factors influence water prices, definitive conclusions concerning water uses and water costs among cities cannot be derived solely from these tables and graphs.

¹ Since completion of DWR's survey, LADWP adopted an increasing block structure.

Name of Agency	County	Summer Use (CCF) ¹	Winter Use (CCF) ¹	Typical Summer Bill (\$) ²	Typical Winter Bill (\$) ²	Cost (\$/AF) ²	Effective Date
North Coast Hydrologic Region	on						
City of Arcata	Humboldt	12	10	9	7	374	7/90
City of Crescent City	Del Norte	10	8	8	7	369	1/91
City of Eureka	Humboldt	28	15	17	12	293	9/83
City of Rohnert Park	Sonoma	17	10	13	13	419	6/89
City of Santa Rosa	Sonoma	15	9	12	8	371	7/90
City of Ukiah	Mendocino	30	16	14	9	583	9/87
San Francisco Hydrologic Re	gion						
City of Hayward	Alameda	13	8	12	8	435	6/91
City of Livermore	Alameda	28	8	33	14	561	1/91
City of Morgan Hill	Santa Clara	26	9	40	15	802	6/89
City of Redwood City	San Mateo	11	6	18	12	757	7/91
City of San Jose	Santa Clara	23	18	35	28	664	7/91
East Bay MUD	Alameda	10	7	17	13	731	7/91
Marin MWD	Marin	9	7	34	28	1,688	5/91
San Francisco WD	San Francisco	6	6	7	7	484	7/91
Central Coast Hydrologic Rep	gion						
California Water Service Co., Salinas	Monterey	20	14	22	18	508	3/91
Monterey Peninsula WMD	Monterey	11	8	31	24	1,160	1/91
City of Morro Bay	San Luis Obispo	6	5	14	12	1,040	5/91
City of San Luis Obispo	San Luis Obispo	10	6	18	11	890	7/90
City of Santa Barbara	Santa Barbara	7	6	22	18 -	1,364	5/91
City of Santa Cruz	Santa Cruz	7	5	9	8	601	2/91
Goleta Water District	Santa Barbara	15	9	47	30	1,381	6/91
South Coast Hydrologic Region	on						
City of Beverly Hills	Los Angeles	24	20	28	24	525	4/91
City of Burbank	Los Angeles	23	17	16	13	311	7/91
City of Escondido	San Diego	43	23	37	23	396	10/88
City of Glendale	Los Angeles	20	18	14	13	312	8/91
City of Hemet	Riverside	15	12	17	15	515	6/91
City of Long Beach	Los Angeles	20	12	22	14	498	3/91
City of Oceanside	San Diego	14	11	28	22	875	7/91
City of Pasadena	Los Angeles	21	18	16	13	331	1/91
City of Riverside	Riverside	27	21	17	12	268	11/90
City of San Diego	San Diego	15	12	20	16	576	1/90
City of Thousand Oaks	Ventura	20	18	23	22	515	7/91
Lake Arrowhead Co. SD	San Bernardino	14	7	36	23	1,233	1/91

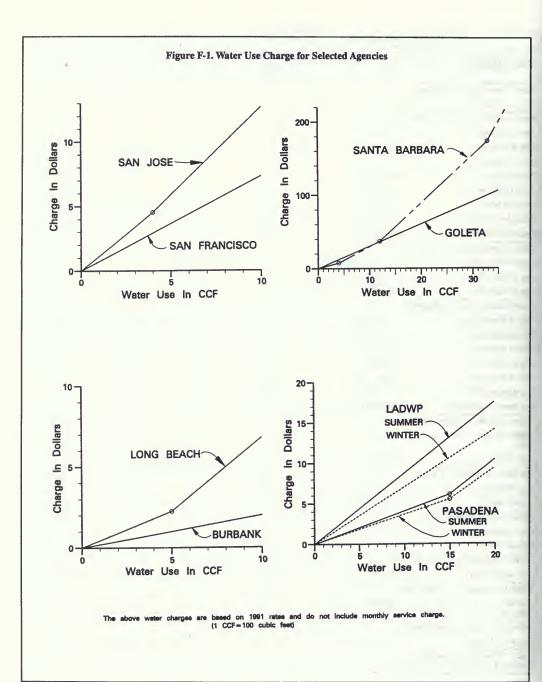
Name of Agency	County	Summer Use (CCF) ¹	Winter Use (CCF) ¹	Typical Summer Bill (\$) ²	Typical Winter Bill (\$) ²	Cost (\$/AF) ²	Rate Effective Date
South Coast Hydrologic Regi	on (continued)						
Los Angeles DWP	Los Angeles	20	10	20	12	462	1/91
San Bernardino MWD	San Bernardino	28	16	23	15	379	5/91
Sacramento River Hydrologic	Region						
California Water Service Co., Chico	Butte	17	9	15	15	518	6/91
City of Alturas	Modoc	30	28	32	31	478	5/91
City of Folsom	Sacramento	36	11	12	12	230	6/87
City of Redding	Shasta	28	13	15	9	254	10/91
City of Sacramento	Sacramento	34	18	10	10	165	7/91
Konocti Co. WD	Lake	11	8	29	24	1,204	3/90
Nevada Irrigation Dist.	Nevada	26	13	26	17	484	1/91
San Joaquin Hydrologic Regi	on						
City of Merced	Merced	37	19	14	14	223	5/90
City of Modesto	Stanislaus	39	16	8	8	131	3/91
City of Oakdale	Stanislaus	23	14	8	4	152	6/91
City of Stockton	San Joaquin	22	13	14	11	311	5/90
City of Tracy	San Joaquin	18	12	18	15	485	6/91
Tulare Lake Hydrologic Regio	on						
City of Bakersfield	Kern	35	25	20	16	263	7/91
City of Clovis	Fresno	22	14	9	6	182	5/83
City of Corcoran	Kings	30	15	12	12	231	8/84
City of Fresno	Fresno	28	12	9	9	193	7/91
City of Tulare	Tulare	40	18	11	11	165	8/89
North Lahontan Hydrologic I	Region						
City of Susanville	Lassen	29	11	27	13	434	10/91
South Tahoe PUD	El Dorado	24	16	17	17	372	6/91
Truckee Donner PUD	Placer	20	13	17	17	451	1/91
South Lahontan Hydrologic F	Region						
City of Bishop	Inyo	18	6	10	10	369	1/90
Palmdale WD	Los Angeles	40	23	43	28	488	11/90
Southern California Water Co., Barstow	San Bernardino	35	25	29	23	379	1/91
Colorado River Hydrologic R	egion						
City of El Centro	Imperial	40	30	22	17	244	9/80
Desert Water Agency	Riverside	20	10	16	10	378	8/91

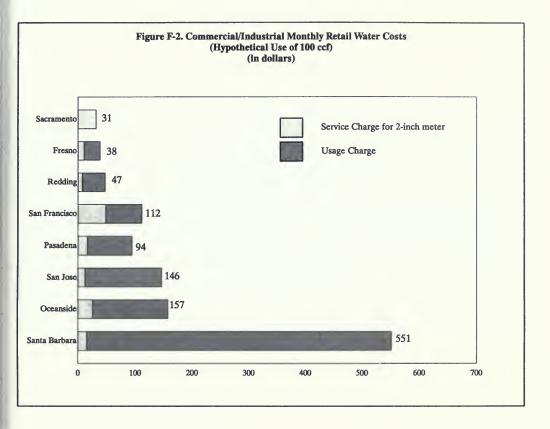
Name of Agency	County	Monthly Water Use (CCF) ¹	Typical Monthly Bill (\$) ²	Cost (\$/AF) ²	Rate Effective
North Coast Hydrologic Regi	on				
Humboldt CSD	Humboldt	10	13	545	7/86
San Francisco Hydrologic Re	gion		· · · · · · · · · · · · · · · · · · ·		
Belmont CWD	San Mateo	9	15	766	7/89
City of Burlingame	San Mateo	10	12	536	9/90
City of Daly City	San Mateo	9	19	922	7/89
City of Mountain View	Santa Clara	10	13	571	7/90
City of Sunnyvale	Santa Clara	11	11	447	5/90
Contra Costa WD	Contra Costa	13	23	761	1/90
Palo Alto Utilities	San Mateo	14	22	696	7/89
Valley of the Moon WD	Sonoma	13	18	614	12/83
South Coast Hydrologic Regi	on				
Capistrano Valley WD	Orange	21	22	465	7/89
City of Anaheim	Orange	10	14	296	9/89
City of Buena Park	Orange	25	18	309	3/89
City of Camarillo	Ventura	17	18	459	6/89
City of Fullerton	Orange	22	18	356	10/89
City of Lakewood	Los Angeles	15	11	614	10/89
City of Poway	San Diego	26	15	258	7/89
East Valley WD	San Bernardino	25	23	405	5/89
Moulton Niguel WD	Orange	17	14	347	7/86
Otay WD	San Diego	25	34	584	1/90
San Bernardino VMWD	San Bernardino	29	20	344	11/89
Sweet Water Authority	San Diego	16	21	567	7/89
Ventura CWD #1	Ventura	24	32	588	2/89
Sacramento River Hydrologic	Region				
Paradise ID	Butte	24	14	250	1/90
San Joaquin Hydrologic Regi	on				
City of Manteca	San Joaquin	24	7	224	8/86
South Lahontan Hydrologic	Region				
Victor Valley County WD	San Bernardino	28	14	295	10/87
Colorado River Hydrologic R	egion			- 0.	
Twenty-Nine Palms WD	San Bernardino	17	20	551	8/90

Table F-3	3. Commercial Averag	e Monthly Water U	se and Retail C	osts (1991)	
Name of Agency	County	Monthly Water Use (CCF) ¹	Typical Monthly Bill (\$) ²	Cost (\$/AF) ²	Rate Effective
North Coast Hydrologic Region					
City of Arcata	Humboldt	44	46	460	7/91
City of Crescent City	Del Norte	73	48	286	1/91
City of Santa Rosa	Sonoma	61	54	263	7/90
San Francisco Hydrologic Regio	n				
City of Hayward	Alameda	40	46	500	7/91
City of Livermore	Alameda	48	75	682	1/91
City of Petaluma	Sonoma	41	42	446	4/91
City of Redwood City	San Mateo	27	45	722	7/91
City of San Jose	Santa Clara	93	136	637	7/91
East Bay MUD	Alameda	74	1,872	918	7/91
Palo Alto Utilities	Santa Clara	52	132	1,104	6/90
San Francisco WD	San Francisco	49	53	471	7/91
Central Coast Hydrologic Region	0				
California Water Service Co., Salinas	Monterey	51	59	501	4/91
City of Morro Bay	San Luis Obispo	38	84	1,141	5/91
City of Santa Barbara	Santa Barbara	26	154	2,581	5/91
City of Santa Cruz	Santa Cruz	33	76	1,003	2/91
South Coast Hydrologic Region					
City of Beverly Hills	Los Angeles	62	112	790	4/91
City of Burbank	Los Angeles	46	29	271	7/91
City of Glendale	Los Angeles	58	46	348	8/91
City of Hemet	Riverside	67	77	503	6/91
City of Oxnard	Ventura	68	85	545	7/91
City of Pasadena	Los Angeles	85	115	588	1/91
City of San Diego	San Diego	51	105	896	1/90
Los Angeles DWP	Los Angeles	30	40	582	2/91
San Bernardino MWD	San Bernardino	80	84	457	2/91
Sacramento River Hydrologic Re	egion				
California Water Service Co., Chico	Butte	62	46	324	6/91
City of Alturas	Modoc	121	58	211	5/91
City of Redding	Shasta	76	37	213	3/91
City of Sacramento	Sacramento	99	72	316	7/91
San Joaquin Hydrologic Region					
City of Oakdale	Stanislaus	122	63	224	6/91
City of Stockton	San Joaquin	48	35	316	5/90
City of Tracy	San Joaquin	41	60	637	6/91

Name of Agency	County	Monthly Water Use (CCF) ¹	Typical Monthly Bill (\$) ²	Cost (\$/AF) ²	Rate Effective Date
Tulare Lake Hydrologic Region					
City of Bakersfield	Kern	145	77	231	7/91
City of Clovis	Fresno	99	372	137	5/83
City of Fresno	Fresno	70	30	187	7/91
North Lahontan Hydrologic Re	gion	·			
City of Susanville	Lassen	159	146	400	10/91
South Tahoe PUD	Piacer	64	96	653	1/91
Truckee Donner PUD	Placer	64	96	653	1/91
South Lahontan Hydrologic Re	gion				
Southern Cal. WC, Barstow	San Bernardino	27	25	393	1/91
Colorado River Hydrologic Reg	ion				
City of Calexico	Imperial	46	73	696	10/88
City of El Centro	Imperial	90	51	245	9/80
City of Needles	San Bernardino	320	160	218	7/91
Desert Water Agency	Riverside	160	105	287	7/88

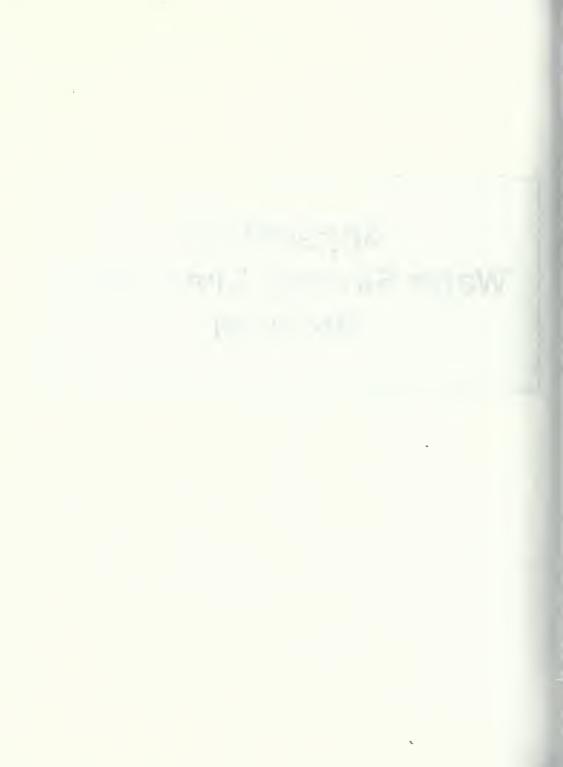
18010 1	. Industrial Average	, , , , , , , , , , , , , , , , , , , ,	Typical		
Name of Agency	County	Monthly Water Use (CCF) ¹	Monthly Bill (\$) ²	Cost (\$/AF) ²	Rate Effective Date
North Coast Hydrologic Region					
City of Crescent City	Del Norte	73	48	286	1/91
San Francisco Hydrologic Region					
City of Hayward	Alameda	60	61	439	7/91
City of Livermore	Alameda	28	57	880	1/91
City of Petaluma	Sonoma	41	42	446	4/91
City of Redwood City	San Mateo	83	123	643	7/91
City of San Jose	Santa Clara	248	344	603	7/91
East Bay MUD	Alameda	713	1,415	864	7/91
Palo Alto Utilities	Santa Clara	288	793	1,199	6/90
San Francisco WD	San Francisco	253	208	358	7/91
Central Coast Hydrologic Region					
City of Morro Bay	San Luis Obispo	72	220	135	5/91
City of Santa Barbara	Santa Barbara	272	1,473	2,358	5/91
City of Santa Cruz	Santa Cruz	462	655	618	2/91
South Coast Hydrologic Region					
City of Beverly Hills	Los Angeles	41	79	839	4/91
City of Burbank	Los Angeles	207	117	247	7/91
City of Glendale	Los Angeles	49	41	363	8/91
City of Oxnard	Ventura	625	781	545	7/91
City of San Diego	San Diego	275	497	787	1/90
Los Angeles DWP	Los Angeles	103	104	441	2/91
San Bernardino MWD	San Bernardino	321	258	349	2/91
Sacramento River Hydrologic Reg	rion				
California Water Service Co., Chico	Butte	122	68	244	6/91
City of Redding	Shasta	38	22	252	3/91
San Joaquin Hydrologic Region					
City of Stockton	San Joaquin	1,479	672	198	5/90
City of Tracy	San Joaquin	7,528	7,574	438	6/91
Tulare Lake Hydrologic Region					
City of Bakersfield	Kern	686	199	126	7/91
City of Fresno	Fresno	251	78	136	7/91
North Lahontan Hydrologic Regio	on				
City of Susanville	Lassen	1,888	398	92	10/91
South Lahontan Hydrologic Region	on				
Southern California Water Co., Barstow	San Bernardino	2,017	1,179	255	1/91
Colorado River Hydrologic Regio	n				
City of Calexico	Imperial	46	73	696	10/88
¹ ccf = 100 cubic feet = 748 gallons ² includes service and commodity char	ges	· · · · · · · · · · · · · · · · · · ·			







Appendix G Water Savings Simulation Program



Appendix G. Water Savings Simulation Program

Forecasts of urban water use are often based on *point estimates* of one or more random variables. Each point estimate approximates the central tendency of a probability distribution. However, many forecasting methods fail to acknowledge the random nature of the model inputs and cannot account for the compounding of errors in the combination of point estimates. The resultant forecasts are misleadingly precise, implying a much greater degree of accuracy than the uncertain nature of the input data actually allows. To remedy this problem, the Water Savings Simulations Program (WSSP) system employs simulation techniques to make random draws of each uncertain quantity used in the calculation of water use and savings. The resulting forecasts are presented in the form of point estimates *and* confidence intervals to convey the uncertainty inherent in the forecasting process.

Basic Methodology

The WSSP system uses simulation techniques to produce multiple estimates of future water consumption for each year of the forecast period. Each estimate is based on randomly selected values from user-defined distributions of each of the uncertain ingredients in the forecast and savings formulas. The selected values are combined according to the forecasting model to produce a single estimate of water use for each forecast year. The process is repeated until, at present, 500 simulations are generated and saved for each year of the forecast period. Program output can be displayed either in tabular form or as line plots of various percentiles of the distributions of the 500 water use estimates (i.e., confidence intervals). Figure G-1 illustrates how the confidence intervals increase in width the further one forecasts into the future, indicating the range of possible values for each year of the forecast.

The WSSP system estimates future values of water use according to the following general relationship:

$$U_{t,w} = f(H, N, I, V, P, E, C)$$

where

 $U_{t,w}$ = average water use in year t, and water use category w, a function (f) of random variables

H = number and type of housing units

N = number of persons per household

I = income

V = building vintage

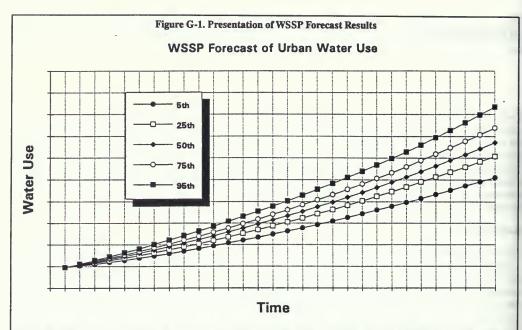
P = price of water

E = employment

C = conservation

First, water use is forecasted under existing laws and current level of conservation (baseline use). Then, an estimate is made of the expected water savings due to implementation of increasingly intensive conservation efforts such as the Best Management Practices. The expected savings are subtracted from the baseline to estimate future water use.

The relationships between water consumption and the various explanatory variables were estimated on the basis of Department studies, water agency data, and literature review. Subsets of these explanatory variables are combined to forecast water use in each defined water use category. The separate estimates are combined by summation to give overall water use.



Water Savings Simulation Program forecast results in the form of the 5th, 25th, 50th, 75th, and 95th percentiles of the distribution of simulation estimates. The 50th percentile plot represents the most likely value for each year of the forecast period under the given assumptions.

Baseline Water Consumption

The WSSP system forecasts baseline water consumption using a variation of the water use coefficient method, modified to account for the effects of certain explanatory variables. Water consumption for each category is estimated by multiplying the appropriate water use coefficient by the number of end users in the category. The end user is specified according to the user category. A resident of the water service area is the end user for the residential water use categories, while an employee in the commercial, industrial, or governmental sectors is specified for the non-residential categories.

Water use coefficients are modeled to change to reflect the influence of various explanatory variables on water consumption. Residential water use coefficients vary according to the number of persons per household, conservation efforts, personal income, and water price. Commercial and industrial coefficients are influenced by conservation and water price. The governmental coefficients are affected by conservation efforts.

Conservation Savings

The WSSP system evaluates water savings due to the set of water conservation efforts known collectively as the BMPs. Forecasts of water savings are specified by BMP and water use category. The potential reduction in consumption due to each BMP is estimated according to the following relationship:

$$S_{c,w,t} = U_{w,t} * R_{c,w} * P_{c,w,t}$$

where

 $S_{c,w,t}$ =water savings resulting from the implementation of conservation measure c, in water use category w, at time t, expressed in gallons per day

U_{w,t} = base year water use in water use category w at time t, expressed in gallons per capita daily

 $R_{c,w}$ = reduction in water consumption resulting from the implementation of conservation measure c, in water use category w, expressed as a proportion of base year water use.

 $P_{c,w,t}$ =population affected by conservation measure c, in water use category w, at time t

The BMPs were drafted by the California Urban Water Conservation Council to speed implementation of urban water conservation measures and to estimate the market penetration and consumption reduction factors for certain BMPs. At present, these estimates have been adopted as the default basis of water savings calculations by WSSP. As with the other input parameters to the WSSP system, these assumptions can be modified by the user as appropriate. Forecasts of water savings can be prepared for each BMP, or aggregated to estimate savings by water use category or overall.

Data Requirements

The WSSP system forecasts water use as a function of a defined set of explanatory variables. The current and future values of the explanatory variables are supplied by the user. Three general kinds of data are required: the actual values of base year water and socioeconomic variables, the projected values of the socioeconomic explanatory variables for the forecast year, and savings assumptions for each demand management technique. Alternate futures can be considered by preparing separate sets of input data to represent differing scenarios of socioeconomic growth and conservation effectiveness. Data specific to each water service area are required for population, household size, housing units, building vintage, employment, income, water consumption, and price. Table G-1 lists the menu of input variables to be specified for each water service area. Basic data were obtained from a number of sources, including federal, State, regional, and local agencies. Table G-2 lists the major sources of input data to the WSSP system.

	Water Use
Wat	ter use by sector, base year
	Single family
	Multi family
	Commercial
	Industrial
	Governmental, other
Sea	sonal water use, base year
	Socioeconomic
Pop	ulation, base year and forecast
	Total water service area population
	Population by dwelling type
	Persons per household by dwelling type
	Group quarters population
Hot	ising, base year and forecast
	Number of housing units by dwelling type
	Growth rate of housing stock by dwelling type
Em	ployment, base year and forecast
	Commercial
	Industrial
	Governmental
Inc	ome, forecast

Table G-2. Sources of Input Data

Water Use

Survey of Urban Water utility Statistics, California Department of Water Resources Urban water management plans

Regional and local water agency reports on water use and conservation

Socioeconomic

Census of Population and Housing, U.S. Department of Commerce Survey of Current Business, U.S. Department of Commerce Statistical Abstract of the United States, U.S. Department of Commerce California Statistical Abstract, California Department of Finance

California Population Characteristics, Center for the Continuing Study of the California Economy

Population Projections by Race and Ethnicity for California and Its Counties 1990-2040, California Department of Finance Regional and local planning agencies

Pilot Forecasting Project

DWR is currently using WSSP in a pilot study to forecast urban water consumption in several areas of the State. Ten water service areas were selected for study, one in each hydrologic region of California (Table G-3). The purpose of the pilot study is to evaluate the accuracy of the WSSP forecasting system, define potential enhancements to the program, and test the feasibility of using WSSP to forecast urban water use statewide.

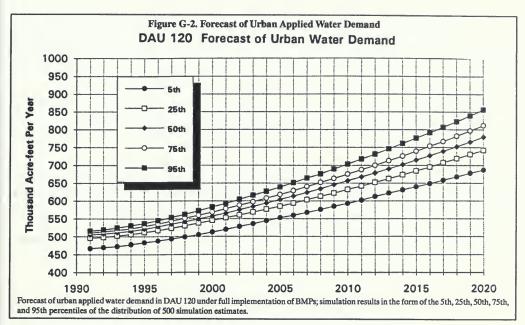
Table G-3. Water Service Areas of WSSP Pilot Study by Hydrologic Region		
Hydrologic Region	Water Service Area	
North Coast	Eureka, City of	
San Francisco Bay	East Bay Municipal Utility District	
Central Coast	Santa Barbara, City of	
South Coast	San Diego County	
Sacramento River	Sacramento, City of	
San Joaquin River	Stockton, City of	
Tulare Lake	Fresno, City of	
North Lahontan	Susanville, City of	
South Lahontan	Victorville, City of	
Colorado River	El Centro, City of	

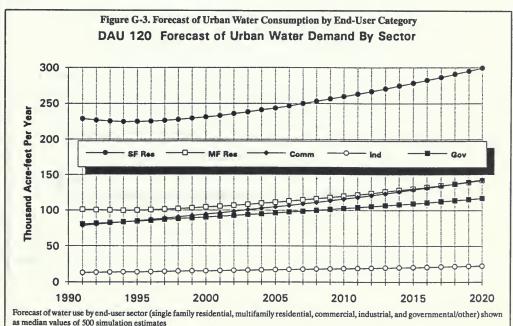
Preliminary Forecast of Urban Water Use in San Diego County

The WSSP system was used to forecast urban water consumption within DAU 120, which comprises the urbanized coastal plains and inland valleys of San Diego County and includes about 97 percent of the county population.

Figure G-2 shows the forecast of urban applied water demand for DAU 120, in thousand acre-feet per year. This forecast considers the effect of existing laws and level of conservation (including the 1992 plumbing code revision) and the BMPs on urban water demand. The output is displayed as line plots of various percentiles of the distribution of 500 water use estimates for each year of the forecast period. The best point estimate of water use for a given year is shown in the form of the 50th percentile of the distribution. Urban applied water use is shown to increase through the period, mainly due to increased population.

Figure G-3 illustrates the forecasts of urban applied water demand for DAU 120 by end-user category. The growth paths are depicted by the 50th percentile of the simulation results for each category (single family residential, multi-family residential, commercial, industrial, and governmental/other). According to the forecast, the single-family residential category will remain the largest of these five components of overall water use, and will grow at the fastest rate in the long term. Commercial water use is also expected to grow quickly relative to the other categories, while industrial water use shows little growth over the forecast period.

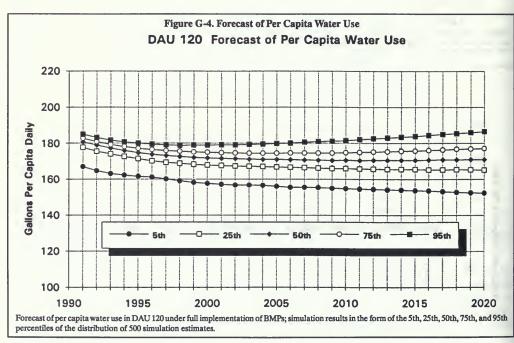


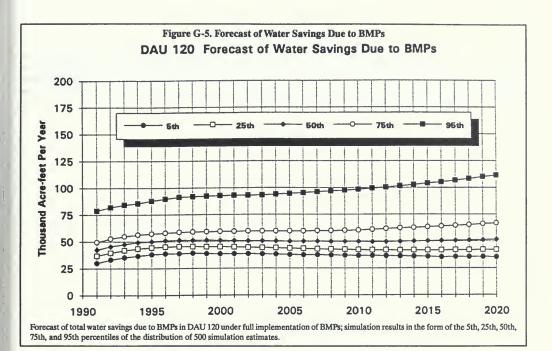


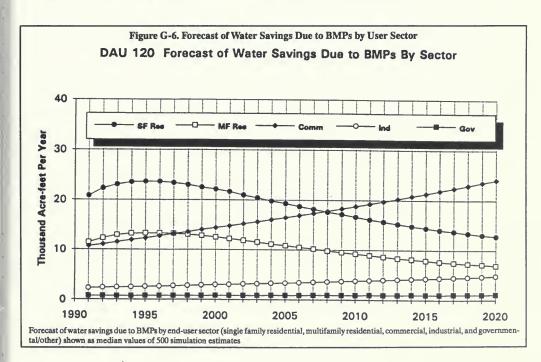
For any planning period, the rate of growth in urban applied water demand will differ from the rate of population growth. The result is variation in per capita water use over the period. Figure G-4 shows the forecast of per capita water use for DAU 120. According to the forecast, per capita use can be expected to decline until about 2010, then level off. The initial decline shows the affect on water demand of many variables, including the 1992 plumbing code revision, implementation of the BMPs, and an increase in the proportion of multi-family to single family housing units. The relatively level long-term trend reflects an expected reduction in household size in DAU 120 and full implementation of the BMPs.

Figure G-5 illustrates the expected annual water savings over the forecast period due to the BMPs. These totals do not include the reduction in demand owing to changes in laws or regulations such as the 1992 plumbing code revision. Annual savings are shown to grow quickly over the near term as efforts to implement the BMPs are intensified. The growth in annual savings levels off in the long term as full implementation of the BMPs is approached.

The forecast of water savings varies by end-user category, as shown in Figure G-6. Annual savings in the residential categories are expected to grow in the short term, but decrease over time. The expected annual savings in the non-residential categories ranges from nearly constant over the forecast period in the governmental/other category to steadily increasing in the industrial and commercial categories. The disparity in the growth paths of residential and non-residential water savings is based on the definition of savings. As mentioned previously, the WSSP does not count demand reduction due to laws or regulations as savings. A large portion of the demand reduction in the residential categories is expected to stem from the 1992 plumbing code revision, whereas reductions in the non-residential categories is assumed to depend primarily on voluntary demand reduction programs and efforts to comply with increasingly strict discharge requirements.







Application of WSSP

The Department of Water Resources is currently working to complete preliminary forecasts for the remaining water service areas in the pilot study (Table G-3). Upon completion and validation of the pilot study forecasts, the WSSP will be modified to forecast water use within larger geographic areas such as detailed analysis units and planning subareas. The results will be used to forecast urban applied water demand by hydrologic region and statewide in future updates to the California Water Plan.







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